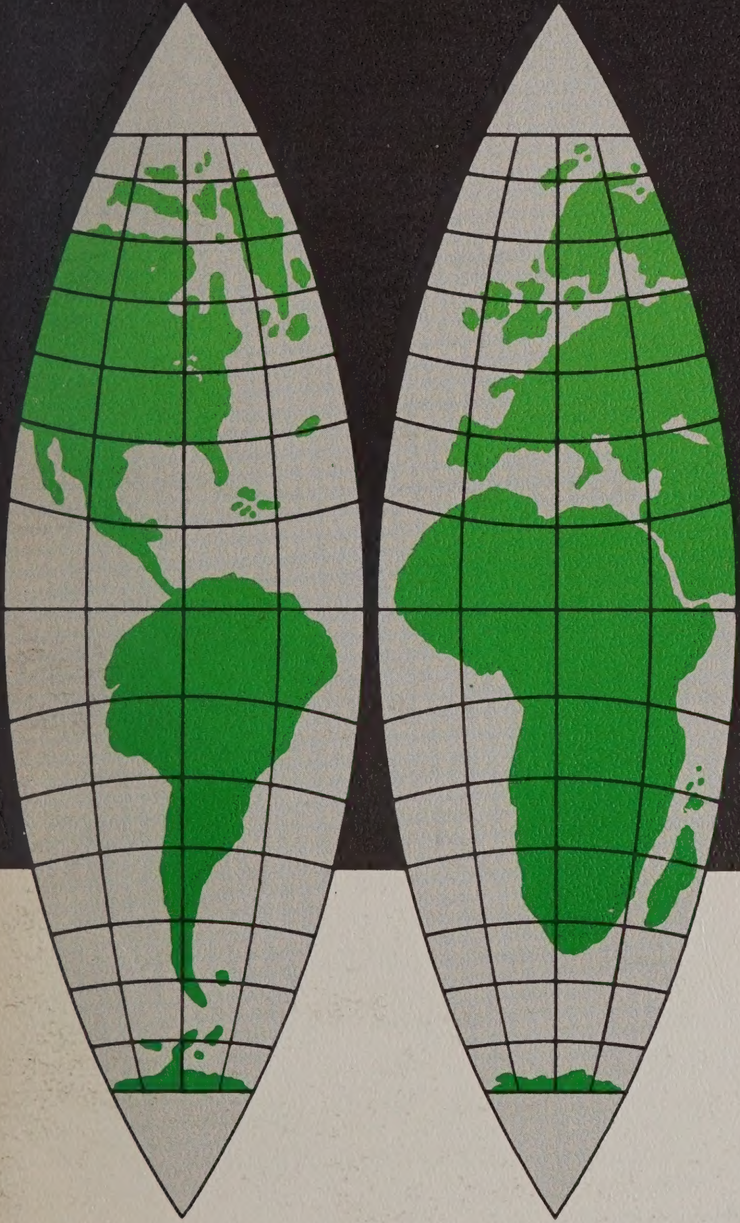


D.A.T.A.BOOK
OF
DISCONTINUED INTEGRATED CIRCUITS

INCLUDES DEVICES DISCONTINUED FROM

- DIGITAL IC D.A.T.A.BOOK
- LINEAR IC D.A.T.A.BOOK
- MSI-LSI MEMORY D.A.T.A.BOOK

1973 - 1974

3rd EDITION

THIS D.A.T.A.BOOK VALID UNTIL JULY 1974

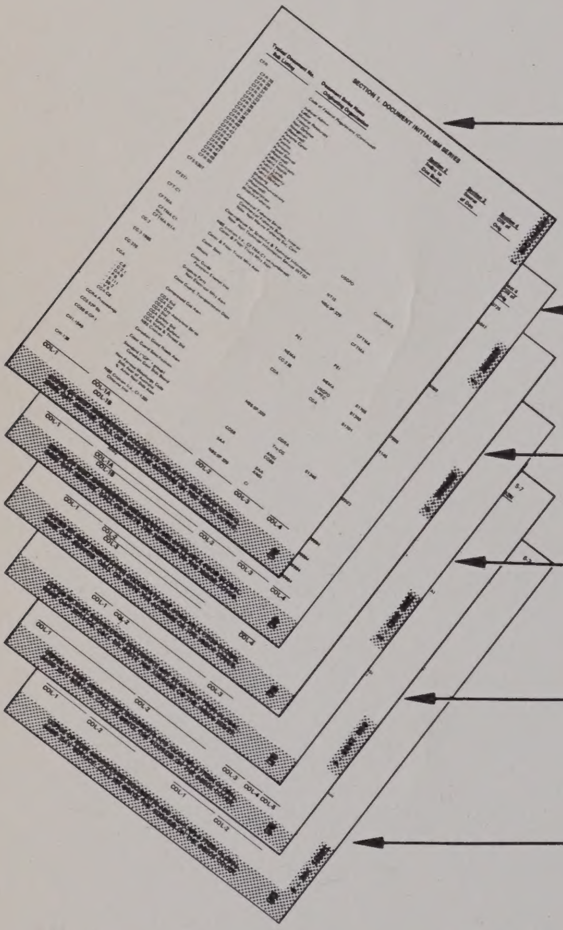
D.A.T.A. REFERENCE STANDARDS FOR INDUSTRY

From Global...
one of the most important publications you can own!

DEDS...the Directory of Engineering Document Sources

DEDS . . . A VERSATILE, VALUABLE, LONG-NEEDED TOOL FOR THE ENGINEERING, DATA, MANAGEMENT AND TECHNICAL REFERENCE LIBRARY COMMUNITY

"DEDS" Will Show You Where to Go — Six Different Ways!



Section—1 **DOCUMENT INITIALISM SERIES** — A Listing of Typical Document Identification Numbers Representing nearly *4000* Series of Engineering/ Management Publications, Including Specs, Standards, Reports, Handbooks, Directives, Circulars, Accession Numbers, etc. for Government and Industry Sources.

Section—2 **INDEXES TO DOCUMENT SERIES** — A Listing of Nearly *160* Numbered Indexes Which Catalog the Document Series in Section—1, With Source Information.

Section—3 **SOURCES FOR PROCURING DOCUMENTS** — The Names and Mailing Addresses for More than *1600* Issuers of Engineering/Management Documents.

Section—4 **CODE IDENTIFICATION NUMBERS** — Nearly *450* CIN's for Document-Originators Their Names and Initialisms, Excerpted from Official Government Sources.

Section—5 **US GOVERNMENT ORGANIZATION CHARTS** — An Indented List of Government Agencies Showing Where Standards and Documents Originate — Full of Surprises.

Section—6 **DOCUMENT SERIES ISSUED BY GOVERNMENT AGENCIES** — Over *1200* Initialisms, Listed Alphabetically Under Their Originating Agencies — Parallels Sect—5.

All Tied Together by a Unique, Specially Human-Engineered Cross-Reference System.

PRICED AT ONLY $34.95

ORDER FROM: D.A.T.A.,Inc.
A Cordura Company

Dept. GXC3
32 Lincoln Avenue
Orange, N.J. 07050

Published by
GLOBAL ENGINEERING DOCUMENTATION SERVICES, INC.

D.A.T.A., INC.
A Cordura Company

XECUTIVE AND EDITORIAL OFFICES
32 Lincoln Ave., Orange, N.J. 07050
el: (201)673-8030 TWX: 710-994-5839

D.A.T.A.BOOK OF DISCONTINUED INTEGRATED CIRCUITS

3rd EDITION 1973 – 1974

TABLE OF CONTENTS

PUBLISHER
Henry Tulchin, Pres.

XECUTIVE PUBLISHER
Herman Schlesinger, Vice-Pres.

MANAGING TECHNICAL EDITOR & STAFF
George Weingarten, *Dave Buda, Val DeGeiso, Nance McLemore*

MANAGING PRODUCTION EDITOR & STAFF
Jerry D'Allegro, *Valdora Adams, Sybble Holcomb, Gail Kent*

TAFF COORDINATOR
Barbara Sczyglinski

DITORIAL SECRETARY
Belle Monk

RAPHICS MANAGER & STAFF
Clint Leinweber, *Ellen Zorn*

RINTING PRODUCTION & STAFF
Paul Ehrlich, *Gregory Uzzolino, Anthony Jukosky*

.P. MANAGER & STAFF
Fred Lepow, *Alan Preston (Ass't). Marie Fitzgerald, Joyce Johnson, Dee Southwell, Charlesena Walker*

ARKETING DIR./SALES & STAFF
Harvey Sanderson, *Carol Costantino, Mark Santa*

DVERTISING SALES MANAGER
Geraldine Purdy
Direct Line – (201) 673-2466

USTOMER SERVICES
Beatrice Ehrlich, *Jill Swartz*

RDER FULFILLMENT MGR. & STAFF
Steve Degenhardt, *Irene Boykewich (Ass't). Jackie Carson, Patti Cavanaugh, Denise Colandra, Gwen Mitchell, Harriette Person, Joanne Schwartz*

PART A
DISCONTINUED DIGITAL INTEGRATED CIRCUITS

INTERPRETER: SYMBOLS & CODES EXPLAINED .... i - iv

TYPE No. CROSS-INDEX

3. All Types .... 2 - 20

TECHNICAL SECTIONS

4. Binary or Flip Flop .... 21 - 38
5. Clock or Multivibrator .... 39 - 41
6. Counters .... 42 - 45
7. Decoders .... 46 - 47
8. Gates .... 48 - 88
9. Shift Registers (Discontinued Before 1971) .... 89 - 90
10. Time Delay .... 91 - 94
11. Miscellaneous .... 95 - 113

PART B
DISCONTINUED LINEAR INTEGRATED CIRCUITS

INTERPRETER: SYMBOLS & CODES EXPLAINED .... i - iv

TYPE No. CROSS-INDEX

2. All Types .... 2 - 6

TECHNICAL SECTIONS

3. Operational Amplifiers .... 7 - 16
4. Differential Amplifiers 17
5. Audio Amplifiers 18
6. RF/IF Amplifiers 19
7. Wideband Amplifiers 20
8. Voltage Regulators .... 21 - 22
9. Voltage Comparators .... 23 - 24
10. & 11. Miscellaneous .... 25 - 30

PART C
DISCONTINUED MSI-LSI MEMORY CIRCUITS

INTERPRETER: SYMBOLS & CODES EXPLAINED .... i - iv

TYPE No. CROSS-INDEX

1. All Types 2

TECHNICAL SECTIONS

2. Read-Write Memories (RAMs) .... 3 - 4
3. Read-Only Memories (ROMs) 5
4. Character Generators 6
5. Content Addressable Memories (CAMs) 7
6. Code Converters 8
7. Shift Registers (Discontinued After 1970) .... 9 - 10

PART D

MANUFACTURERS AND THEIR ADDRESSES .... 1 - 4

OPYRIGHT © 1973
y Derivation And Tabulation Associates, Inc.,
l rights reserved. Reproduction in whole or in
rt, without written permission, is prohibited.

HOW TO MAKE MAXIMUM USE OF THIS D.A.T.A.BOOK

To make maximum use of this D.A.T.A.BOOK, select the particular known-unknown situation below that defines your problem, and follow the instructions as indicated.

Notes: This book is separated into three parts: Digital (Part A), Linear (Part B) and Memory (Part C), each with its own Type Number Cross-Index, technical sections and Symbols and Codes Interpreter. With the exception of a common list of Manufacturers Codes, Names and Addresses in the back of the book, each part should be treated as a separate entity. As such, the guidelines given below apply to each part individually.

Refer to the current Linear, Digital or Memory book, as applicable, for the electrical (logic or schematic) and outline drawings called out in the technical sections of this book.

1

KNOWN: Type Number
UNKNOWN: Manufacturer(s), Address(es)

a. Turn to Type Number Cross-Index in applicable part of book (Digital, Linear or Memory; see Table of Contents), and locate the subject type number.
b. Note the 3- or 4-letter Manufacturer Code, e.g., TII, GESY, alongside the type number.
c. Use the list of Manufacturers Codes, Names and Addresses in back of the book to identify the manufacturer.

2

KNOWN: Type Number
UNKNOWN: Its Electrical Characteristics

a. Turn to Type Number Cross-Index and locate the subject type number.
b. Note the page and line number, e.g., 20-104, alongside the type number.
c. Locate the type number as noted, in the technical sections.

3

KNOWN: Type Number
UNKNOWN: Current Equivalents or Similar Types

a. Turn to Type Number Cross-Index and locate the subject type number.
b. Observe whether the subject type has been replaced by another type, and whether the replacement type is itself current (cur) or obsolete (obs).
c. If the replacement type is obsolete, look for it in the Type Number Cross-Index of this book; if current, in the Type Number Cross-Index of the Digital, Linear or Memory book, as applicable.
d. If no replacement type is indicated, turn to the technical section in this book and locate the subject type. Then turn to the corresponding section of the current book, and survey the type numbers in that section to select a suitable replacement. (In doing this, use the sequencing parameters at the top corner of the page.)

4

KNOWN: Type Number
UNKNOWN: Logic or Schematic and/or Outline Drawing

a. Follow the instructions in Block 2 above.
b. The last two entries of the technical listing indicate the electrical and outline drawing for the subject type.
c. Locate the drawing in the current Digital, Linear or Memory book, as applicable.

PART A

DISCONTINUED DIGITAL INTEGRATED CIRCUITS

SYMBOLS & CODES EXPLAINED

IN TYPE No. CROSS INDEX AND TECHNICAL SECTIONS

IN TYPE No. CROSS INDEX

△ # ⌀ — Indicators of separate manufacturers producing same type number (non–JEDEC) whose characteristics are not the same. This manufacturer–identifying symbol (assigned by D.A.T.A.) is an integral part of the type number (in Type No. Cross Index, Technical Data Sections) to avoid the possibility of confusing the device of one manufacturer with the devices of the others. **Example . . .**

Type No.	Manufacturer	Description
DD31 △	CCD	Miscellaneous
DD31 #	CLC	Decoders
DD31 ⌀	ZEL	Gates

–RT ... Suffix indicates device is a replacement type.
Consult manufacturer for more information.

# 1, # 2, ... The modifier is designated by D.A.T.A. to distinguish between type no. designations which give only one type no. but have more than one electrical function or package.

% — Different suffices for the same type number indicate availability of different packaging compositions; i.e., ceramic, plastics, silicone, etc. Consult manufacturer.

SYMBOLS & CODES COMMON TO MORE THAN ONE TECHNICAL SECTION

TYPE OF or USE COLUMN (Letter & Symbol Codes) (Following "Use No." or "Type OF" No.)

- A — Additional amplifiers included can be used separately
- B — Additional gating included can be used separately
- C — Additional inverter included can be used separately
- D — Clamped operation variable level capability
- E — With internally connected amplifiers
- F — With internally connected gating
- G — With internally connected inverters
- H — Incandescent number display included
- J — Neon numeric display included
- K — Complement input used
- L — Includes buffer register
- M — Manufacturer indicates gate will operate on either connective function by changing the logic level convention
- R — Reversible
- S — Both normal and inverted functions are available at separate output terminals
- T — Includes Multiplexer Input
- U — Variable or programmable modulo

TEMPERATURE COLUMN
Indicates that the Type No. has more than one Temperature Range.

	WIDEST RANGE		NEXT NARROW		MOST NARROW	
	LOW	HIGH	LOW	HIGH	LOW	HIGH
T2	–55°C	125°C	–30°C	100°C		
T3	–55°C	125°C	0°C	75°C		
T5	–55°C	125°C	–30°C	100°C		
T7	–55°C	125°C	0°C	70°C		
T8	–55°C	125°C	0°C	75°C	15°C	125°C
T9	–55°C	125°C	0°C	100°C	15°C	55°C

OUTLINE DRAWING COLUMN (Letter Prefix)

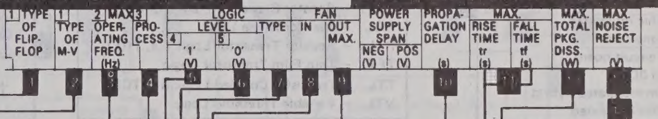
- CB — Printed circuit board
- CN — TO5 type (not JEDEC outline)
- FC — Flat Pack Chip (not JEDEC outline)
- FP — Flat package (not JEDEC outline)
- M — Molded or encapsulated package not included in other catagories
- TO — Standard JEDEC outline
- ZB — Multiple package possibilities and drawing reference information
- ⌀ — Package style-actual dimensions not specified
- △ — MO Standard Jedec Outline

LINE No.

- ▼ — New Type
- ♦ — Revised Specification
- # — Non Jedec Type Manufactured Outside U.S.A.

4. BINARY OR FLIP-FLOP

5. CLOCK OR MULTIVIBRATOR



(FOR LETTER SUFFIX SEE COMMON CODES)

Section 4 (Binary or Flip-Flop)
2 – J-K
3 – R-S
4 – R-S-T
5 – Shift Register
6 – T
7 – Complement RS
8 – D Type

Section 5 (Clock or Multivibrator)
1 – Astable
2 – Astable Synchronized
3 – Astable Variable
4 – Crystal Controlled
5 – Tuning Fork Controlled
6 – RC or LC Oscillator's

△ – Maximum clock rate
† – Maximum toggle frequency
% – Typical
* – At Temperature above 25°C
∅ – Minimum

Code	Description
3DM	3D Module
DCM	Discrete component micro circuits
MOH	Monolithic integrated hybrid
MON	Monolithic integrated
MOS	MOS monolithic
PCB	Printed circuit board
PCM	PCB and 3DM
TFH	Thin film integrated hybrid
TFM	Thin film integrated

△ – Indicates complement outputs are available
† – Indicated value at maximum rated fan in
% – Minimum   * – Maximum

△ – Indicated value at maximum rated fan out
† – Indicates values given are for output
% – Minimum
* – Maximum
# – Collector to emitter saturation voltage Vce (sat)

Code	Description
CDL	Capacitor Diode Logic
CML	Current Mode Logic
CTL	Capacitor Transistor Logic
DDL	Diode Logic
DTL	Transistor Diode Logic (i.e., TDL)
ECT	Emitter Coupled Transistor Logic
ITL	Transformer Coupled Transistor Logic
MTL	Core Transistor Logic
RCT	Resistor Capacitor Transistor Logic
RDL	Resistor Diode Logic
RTL	Resistor Transistor Logic (i.e, TRL)
TFT	Thin Film Transistor Logic
TTL	Transistor Coupled Logic (i.e, TCL)
VTL	Variable Threshold Logic

(Number of Input Leads per Circuit, NOT the loading factor)
△ – Includes expandable terminal in number given
† – Maximum number any unit has, others have fewer

(Per Circuit)
△ – Depends on input drive
† – Minimum
% – Maximum any unit has, others have fewer

† – Transition Time
% – Average propagation delay
△ – Maximum
⌀ – Per State

△ – Minimum
† – Typical

△ – Typical   % – Db
† – Ratio   * – Minimum
⌀ – Input noise voltage
# – Input noise in uV

△ – Power dissipation per circuit
† – Steady-state or 50% duty cycle at typical operating conditions
% – Quiescent power dissipation

SYMBOLS & CODES EXPLAINED

SYMBOLS & CODES COMMON TO MORE THAN ONE TECHNICAL SECTION

TYPE OF or USE COLUMN (Letter & Symbol Codes) (Following "Use No." or "Type OF" No.)

- A – Additional amplifiers included can be used separately
- B – Additional gating included can be used separately
- C – Additional inverter included can be used separately
- D – Clamped operation variable level capability
- E – With internally connected amplifiers
- F – With internally connected gating
- G – With internally connected inverters
- H – Incandescent number display included
- J – Neon numeric display included
- K – Complement input used
- L – Includes buffer register
- M – Manufacturer indicates gate will operate on either connective function by changing the logic level convention
- R – Reversible
- S – Both normal and inverted functions are available at separate output terminals
- T – Includes Multiplexer Input
- U – Variable or programmable modulo

TEMPERATURE COLUMN

Indicates that the Type No. has more than one Temperature Range.

	WIDEST RANGE		NEXT NARROW		MOST NARROW	
	LOW	HIGH	LOW	HIGH	LOW	HIGH
T2	–55°C	125°C	–30°C	100°C		
T3	–55°C	125°C	0°C	75°C		
T5	–55°C	125°C	–30°C	100°C		
T7	–55°C	125°C	0°C	70°C		
T8	–55°C	125°C	0°C	75°C	15°C	125°C
T9	–55°C	125°C	0°C	100°C	15°C	55°C

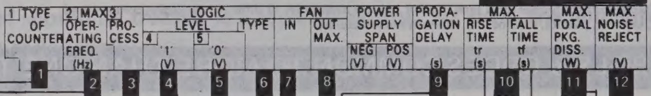
OUTLINE DRAWING COLUMN (Letter Prefix)

- CB – Printed circuit board
- CN – TO5 type (not JEDEC outline)
- FC – Flat Pack Chip (not JEDEC outline)
- FP – Flat package (not JEDEC outline)
- M – Molded or encapsulated package not included in other catagories
- TO – Standard JEDEC outline
- ZB – Multiple package possibilities and drawing reference information
- ⧄ – Package style-actual dimensions not specified
- Δ – MO Standard Jedec Outline

LINE No.

- ▼ – New Type
- ♦ – Revised Specification
- # – Non Jedec Type Manufactured Outside U.S.A.

6. COUNTERS



(FOR LETTER SUFFIX SEE COMMON CODES)

1
- 1 – Binary Coded Decimal
- 2 – Binary
- 3 – Decimal
- 4 – Fast Carry
- 5 – Ring
- 6 – Special
- 7 – Hexadecimal

2
- Δ – Maximum clock rate
- † – Maximum toggle frequency
- % – Typical
- * – At Temperature above 25°C
- ∅ – Minimum

3
- 3DM – 3D Module
- DCM – Discrete component micro circuits
- MOH – Monolithic integrated hybrid
- MON – Monolithic integrated
- MOS – MOS monolithic
- PCB – Printed circuit board
- PCM – PCB and 3DM
- TFH – Thin film integrated hybrid
- TFM – Thin film integrated

4
- Δ – Indicates complement outputs are available
- † – Indicated value at maximum rated fan in
- % – Minimum
- * – Maximum
- # – Peak to peak

5
- Δ – Indicated value at maximum rated fan out
- † – Indicates values given are for output
- % – Minimum
- * – Maximum
- # – Collector to emitter saturation voltage Vce (sat)

6
- CDL – Capacitor Diode Logic
- CML – Current Mode Logic
- CTL – Capacitor Transistor Logic
- DDL – Diode Logic
- DTL – Transistor Diode Logic (i.e., TDL)
- ECT – Emitter Coupled Transistor Logic
- ITL – Transformer Coupled Transistor Logic
- MTL – Core Transistor Logic
- RCT – Resistor Capacitor Transistor Logic
- RDL – Resistor Diode Logic
- RTL – Resistor Transistor Logic (i.e, TRL)
- TFT – Thin Film Transistor Logic
- TTL – Transistor Coupled Logic (i.e, TCL)
- VTL – Variable Threshold Logic

7

(Number of Input Leads per Circuit, NOT the loading factor)
- Δ – Includes expandable terminal in number given
- † – Maximum number any unit has, others have fewer

8

(Per Circuit)
- Δ – Depends on input drive
- † – Minimum
- % – Maximum any unit has, others have fewer

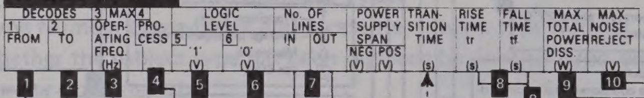
9
- † – Transition Time
- % – Average propagation delay
- Δ – Maximum
- ⧄ – Per State

10
- Δ – Minimum
- † – Typical

11
- Δ – Power dissipation per circuit
- † – Steady-state or 50% duty cycle at typical operating conditions
- % – Quiescent power dissipation

12
- Δ – Typical
- † – Ratio
- ⧄ – Input noise voltage
- % – Db
- * – Minimum
- # – Input noise in uV

7. DECODERS



(FOR LETTER SUFFIX SEE COMMON CODES)

1 2
- 1– Binary
- 2– Binary Coded Decimal
- 3– Bi-Quinary
- 4– Decimal
- 5– Excess 3 Code
- 6– Gray Code
- 8– Octal
- 9– Quartenary
- 10– Quinary
- 17– 8421 Code
- 18– One of "x" number of lines
- 19– Two of "x" number of lines
- 20– 7 Segment
- 21– Excess three gray code
- 22– 8 Segment
- 23– Three of "x" No. of lines

2
- Δ – Drives numeric neon indicator
- † – Drives incandescent indicator
- % – Converts to and from other codes
- * – Includes Output Driver

3
- Δ – Maximum clock rate
- † – Maximum toggle frequency
- % – Typical
- * – At Temperature above 25°C
- ∅ – Minimum

4
- 3DM – 3D Module
- DCM – Discrete component micro circuits
- MOH – Monolithic integrated hybrid
- MON – Monolithic integrated
- MOS – MOS monolithic
- PCB – Printed circuit board
- PCM – PCB and 3DM
- TFH – Thin film integrated hybrid
- TFM – Thin film integrated

5
- Δ – Indicates complement outputs are available
- † – Indicated value at maximum rated fan in
- % – Minimum
- * – Maximum

6
- Δ – Indicated value at maximum rated fan out
- † – Indicates values given are for output
- % – Minimum
- * – Maximum
- # – Collector to emitter Saturation Voltage Vce (sat)

7

(Number includes Complementary Lines)
- Δ – Use of complement lines is optional
- † – Complement lines must be used for proper operation

8
- Δ – Minimum
- † – Typical

9
- Δ – Power dissipation per circuit
- † – Steady-state or 50% duty cycle at typical operating conditions
- % – Quiescent power dissipation

10
- Δ – Typical
- † – Ratio
- ⧄ – Input noise voltage
- % – Db
- * – Minimum
- # – Input noise in uV

TRANSITION TIME
- † – Propagation Delay
- % – Average Transition Time
- Δ – Maximum
- ⧄ – Per Stage

PART A

SYMBOLS & CODES EXPLAINED

SYMBOLS & CODES COMMON TO MORE THAN ONE TECHNICAL SECTION

TYPE OF or USE COLUMN (Letter & Symbol Codes) (Following "Use No." or "Type OF" No.)

A – Additional amplifiers included can be used separately
B – Additional gating included can be used separately
C – Additional inverter included can be used separately
D – Clamped operation variable level capability
E – With internally connected amplifiers
F – With internally connected gating
G – With internally connected inverters
H – Incandescent number display included
J – Neon numeric display included
K – Complement input used
L – Includes buffer register
M – Manufacturer indicates gate will operate on either connective function by changing the logic level convention
R – Reversible
S – Both normal and inverted functions are available at separate output terminals
T – Includes Multiplexer Input
U – Variable or programmable modulo

TEMPERATURE COLUMN

Indicates that the Type No. has more than one Temperature Range.

	WIDEST RANGE		NEXT NARROW		MOST NARROW	
	LOW	HIGH	LOW	HIGH	LOW	HIGH
T2	-55^{o}C	125^{o}C	-30^{o}C	100^{o}C		
T3	-55^{o}C	125^{o}C	0^{o}C	75^{o}C		
T5	-55^{o}C	125^{o}C	-30^{o}C	100^{o}C		
T7	-55^{o}C	125^{o}C	0^{o}C	70^{o}C		
T8	-55^{o}C	125^{o}C	0^{o}C	75^{o}C	15^{o}C	125^{o}C
T9	-55^{o}C	125^{o}C	0^{o}C	100^{o}C	15^{o}C	55^{o}C

OUTLINE DRAWING COLUMN (Letter Prefix)

CB – Printed circuit board
CN – TO5 type (not JEDEC outline)
FC – Flat Pack Chip (not JEDEC outline)
FP – Flat package (not JEDEC outline)
M – Molded or encapsulated package not included in other catagories
TO – Standard JEDEC outline
ZB – Multiple package possibilities and drawing reference information
▨ – Package style-actual dimensions not specified
△ – MO Standard Jedec Outline

LINE No.

▼ – New Type
♦ – Revised Specification
– Non Jedec Type Manufactured Outside U.S.A.

8. GATES

1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL		LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN		PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)
			4 '1' (V)	5 '0' (V)				NEG. (V)	POS. (V)					
1	2	3	4	5	6	7	8			9	10	10	11	12

1 (FOR LETTER SUFFIX SEE COMMON CODES)

1 – AND
2 – OR
3 – NOR
4 – NAND
5 – Exclusive OR
6 – Gate Expander
7 – Exclusive NOR

2

△ – Maximum clock rate
† – Maximum toggle frequency
% – Typical
* – At Temperature above 25°C
∅ – Minimum

3

3DM – 3D Module
DCM – Discrete component micro circuits
MOH – Monolithic integrated hybrid
MON – Monolithic integrated
MOS – MOS monolithic
PCB – Printed circuit board
PCM – PCB and 3DM
TFH – Thin film integrated hybrid
TFM – Thin film integrated

4

△ – Indicates complement outputs are available
† – Indicated value at maximum rated fan in
% – Minimum
* – Maximum

5

△ – Indicated value at maximum rated fan out
† – Indicates values given are for output
% – Minimum
# – Collector to emitter saturation voltage Vce (sat)
* – Maximum

6

CDL – Capacitor Diode Logic
CML – Current Mode Logic
CTL – Capacitor Transistor Logic
DDL – Diode Logic
DTL – Transistor Diode Logic (i.e., TDL)
ECT – Emitter Coupled Transistor Logic
ITL – Transformer Coupled Transistor Logic
MTL – Core Transistor Logic
RCT – Resistor Capacitor Transistor Logic
RDL – Resistor Diode Logic
RTL – Resistor Transistor Logic (i.e, TRL)
TFT – Thin Film Transistor Logic
TTL – Transistor Coupled Logic (i.e, TCL)
VTL – Variable Threshold Logic

7

(Number of Input Leads per Circuit, NOT the loading factor)
△ – Includes expandable terminal in number given
† – Maximum number any unit has, others have fewer

8

(Per Circuit)
△ – Depends on input drive
† – Minimum
% – Maximum any unit has, others have fewer

9

† – Transition Time
% – Average Propagation delay
△ – Maximum
▨ – Per State

10

△ – Minimum
† – Typical

11

△ – Power dissipation per circuit
† – Steady-state or 50% duty cycle at typical operating conditions
% – Quiescent power dissipation

12

△ – Typical
% – Db
† – Ratio
* – Minimum
▨ – Input noise voltage
# – Input noise in uV

PART A

SYMBOLS & CODES EXPLAINED

SYMBOLS & CODES COMMON TO MORE THAN ONE TECHNICAL SECTION

TYPE OF or USE COLUMN (Letter & Symbol Codes) (Following "Use No." or "Type OF" No.)

A – Additional amplifiers included can be used separately
B – Additional gating included can be used separately
C – Additional inverter included can be used separately
D – Clamped operation variable level capability
E – With internally connected amplifiers
F – With internally connected gating
G – With internally connected inverters
H – Incandescent number display included
J – Neon numeric display included
K – Complement input used
L – Includes buffer register
M – Manufacturer indicates gate will operate on either connective function by changing the logic level convention
R – Reversible
S – Both normal and inverted functions are available at separate output terminals
T – Includes Multiplexer Input
U – Variable or programmable modulo

TEMPERATURE COLUMN
Indicates that the Type No. has more than one Temperature Range.

	WIDEST RANGE		NEXT NARROW		MOST NARROW	
	LOW	HIGH	LOW	HIGH	LOW	HIGH
T2	−55°C	125°C	−30°C	100°C		
T3	−55°C	125°C	0°C	75°C		
T5	−55°C	125°C	−30°C	100°C		
T7	−55°C	125°C	0°C	70°C		
T8	−55°C	125°C	0°C	75°C	15°C	125°C
T9	−55°C	125°C	0°C	100°C	15°C	55°C

OUTLINE DRAWING COLUMN (Letter Prefix)

CB – Printed circuit board
CN – TO5 type (not JEDEC outline)
FC – Flat Pack Chip (not JEDEC outline)
FP – Flat package (not JEDEC outline)
M – Molded or encapsulated package not included in other catagories
TO – Standard JEDEC outline
ƵB – Multiple package possibilities and drawing reference information
⍁ – Package style-actual dimensions not specified
Δ – MO Standard Jedec Outline

LINE No.

▼ – New Type
♦ – Revised Specification
– Non Jedec Type Manufactured Outside U.S.A.

10. TIME DELAY

1 TIME DELAY TYPE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)
1	2	3	4	5	6	7	8			9	10		11	12

1
(FOR LETTER SUFFIX SEE COMMON CODES)

1 – Delay Line Fixed
2 – Delay Line Tapped
3 – Delay Line Continuously Variable
4 – Mono-stable Multivibrator Fixed Delay
5 – Mono-stable Multivibrator Variable Delay

2
Δ – Maximum clock rate
† – Maximum toggle frequency
% – Typical
* – At Temperature above 25°C
∅ – Minimum

3
3DM – 3D Module
DCM – Discrete component micro circuits
MOH – Monolithic integrated hybrid
MON – Monolithic integrated
MOS – MOS monolithic
PCB – Printed circuit board
PCM – PCB and 3DM
TFH – Thin film integrated hybrid
TFM – Thin film integrated

4
Δ – Indicates complement outputs are available
† – Indicated value at maximum rated fan in
% – Minimum * – Maximum

5
Δ – Indicated value at maximum rated fan out
† – Indicates values given are for output
% – Minimum # – Collector to emitter saturation voltage Vce (sat)
* – Maximum

6
CDL – Capacitor Diode Logic
CML – Current Mode Logic
CTL – Capacitor Transistor Logic
DDL – Diode Logic
DTL – Transistor Diode Logic (i.e., TDL)
ECT – Emitter Coupled Transistor Logic
ITL – Transformer Coupled Transistor Logic
MTL – Core Transistor Logic
RCT – Resistor Capacitor Transistor Logic
RDL – Resistor Diode Logic
RTL – Resistor Transistor Logic (i.e, TRL)
TFT – Thin Film Transistor Logic
TTL – Transistor Coupled Logic (i.e, TCL)
VTL – Variable Threshold Logic

7
(Number of Input Leads per Circuit, NOT the loading factor)
Δ – Includes expandable terminal in number given
† – Maximum number any unit has, others have fewer

8
(Per Circuit)
Δ – Depends on input drive
† – Minimum
% – Maximum any unit has, others have fewer

9
† – Transition Time
% – Average propagation delay
Δ – Maximum
⍁ – Per State

10
Δ – Minimum
† – Typical

11
Δ – Power dissipation per circuit
† – Steady-state or 50% duty cycle at typical operating conditions
% – Quiescent power dissipation

12
Δ – Typical % – Db
† – Ratio * – Minimum
⍁ – Input noise voltage
# – Input noise in uV

11. MISCELLANEOUS

1 USE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL '1' (V)	LOGIC LEVEL '0' (V)	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	MAX. TOTAL PKG. DISS. (W)	GENERAL DESCRIPTION
1	2	3	4	5			6	7

1
(FOR LETTER SUFFIX SEE COMMON CODES)

1 – Analog to digital converter
2 – Digital to analog converter
3 – Full-Adder
4 – Half-Adder
5 – Interface Converter
6 – Inverter
7 – Logic level converter
9 – Schmitt trigger
10 – Incandescent lampdriver
11 – Neon and display tube driver
12 – Relay driver
13 – Head selector
14 – Mode selector
15 – Special purpose circuit
16 – Binary divider
17 – Analog gate switch
19 – Sense amplifiers
20 – Logic amplifiers and driver
21 – Line drivers/transmitters
22 – Line receivers
23 – Clock drivers
24 – Switch drivers
25 – High power devices
26 – Diode arrays and networks
27 – Transistor arrays
28 – Multipliers

2
Δ – Maximum clock rate
† – Maximum toggle frequency
% – Typical
* – At Temperature above 25°C
∅ – Minimum
⍉ – Gain bandwidth product (ft)

3
3DM – 3D Module
DCM – Discrete component micro circuits
MOH – Monolithic integrated hybrid
MON – Monolithic integrated
MOS – MOS monolithic
PCB – Printed circuit board
PCM – PCB and 3DM
TFH – Thin film integrated hybrid
TFM – Thin film integrated

4
Δ – Indicates complement outputs are available
† – Indicated value at maximum
∅ – PIV peak inverse voltage
⍁ – Breakdown voltage collector to emitter BVceo
% – Minimum * – Maximum # – Peak to peak

5
Δ – Indicated value at maximum rated fan out
† – Indicates values given are for output
% – Minimum # – Collector to emitter saturation voltage Vce (sat)
* – Maximum

6
Δ – Power dissipation per circuit
† – Steady-state or 50% duty cycle at typical operating conditions
% – Quiescent power dissipation

7

A	Gain
AMP	Amplifiers
B	Base
BD	Board
C	Collector
CKT	Circuit
CL	Clamped
COM	Common
COMP	Complement
CONT	Contact
CONV	Converter
DEC	Decimal
E	Emitter
FLTG	Floating
Fo	Fan Out
GRD	Ground
INT	Internally Connected
INCL	Included
INV	Inverter
Io	Output Current
LD	Load
MTX	Matrix
NC	No Connection
NEG	Negative
OSC	Oscillator
POS	Positive
PROP	Propagation
Rds	Drain-Source On-Resistance
RES	Resistor
RESP	Respectively
RT	Rating
SENS	Sensitivity
SW	Switch
Toff	Turn Off Delay Time
Ton	Turn On Delay Time
T_{pd}	Propagation Time
T_{rec}	Recovery Time
T_{op}	Operating Time
T_{rel}	Release Time
VIO	Input Offset Voltage
VoH	High Output Voltage
VoL	Low Output Voltage
ΔVo	Output Voltage Swing
Vth	Differential Input Threshold Voltage
W/	With

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
2AMM	WLD	39-34	3NB3027	NSC	99-79	6F200K	WESY	29-65	6G140K	WESY	81-101	6G262G	WESY	74-103
2F260G	WESY	29-6	3NB4015	NSC	59-23	6F201G	WESY	29-66	6G141G	WESY	81-102	6G262K	WESY	74-104
2F260K	WESY	29-7	3NB4026	NSC	23-93	6F201K	WESY	29-67	6G141K	WESY	81-103	6G263D	WESY	74-105
2F261G	WESY	29-8	3NB4027	NSC	99-80	6F202D	WESY	29-68	6G142D	WESY	81-104	6G263G	WESY	74-106
2F261K	WESY	29-9	4ASH	WLD	92-93	6F202G	WESY	29-69	6G142G	WESY	81-105	6G263K	WESY	74-107
2F262D	WESY	29-51	4ASM	WLD	92-64	6F203D	WESY	29-70	6G143D	WESY	81-106	6G270D	WESY	85-60
2F262G	WESY	29-52	4ATH	WLD	103-105	6F203G	WESY	29-71	6G143G	WESY	81-107	6G270G	WESY	85-61
2F263D	WESY	29-53	4CDH	WLD	70-97	6F210G	WESY	29-72	6G150G	WESY	87-87	6G270K	WESY	85-62
2F263G	WESY	29-54	4JD12X101	GESY	80-64	6F210K	WESY	29-73	6G150K	WESY	87-88	6G271D	WESY	85-63
2FBH	WLD	27-14	4JD12X248	GESY	92-56	6F211G	WESY	29-74	6G151G	WESY	87-89	6G271G	WESY	85-64
2FBM	WLD	27-13	4JPA345	GESY	106-103	6F211K	WESY	29-75	6G151K	WESY	87-90	6G271K	WESY	85-65
2MRD	WLD	106-28	4JPA358	GESY	106-104	6F212D	WESY	29-76	6G152D	WESY	87-91	6G272D	WESY	85-84
2NB1000	NSC	102-28	4JPA380	GESY	106-105	6F212G	WESY	29-77	6G152G	WESY	87-92	6G272G	WESY	85-85
2NB1001	NSC	110-6	4JPA912	GESY	106-106	6F213D	WESY	29-78	6G153D	WESY	87-93	6G272K	WESY	85-86
2NB1002	NSC	31-84	4JPA913	GESY	106-107	6F213G	WESY	29-79	6G153G	WESY	87-94	6G273D	WESY	85-87
2NB1003	NSC	84-2	4SSM	WLD	91-69	6F250G	WESY	29-10	6G170G	WESY	87-95	6G273G	WESY	85-88
2NB1004	NSC	98-66	4XBL	WLD	30-103	6F250K	WESY	29-11	6G170K	WESY	87-96	6G273K	WESY	85-89
2NB1005	NSC	37-52	4XDH	WLD	42-27	6F251G	WESY	29-12	6G171G	WESY	87-97	6G280G	WESY	52-3
2NB1006	NSC	37-53	4XDM	WLD	42-8	6F251K	WESY	29-13	6G171K	WESY	87-98	6G280K	WESY	52-4
2NB1007	NSC	59-15	4XGH	WLD	22-67	6F252D	WESY	29-55	6G172D	WESY	87-99	6G281G	WESY	52-5
2NB1014	NSC	59-16	4XGM	WLD	22-51	6F252G	WESY	29-56	6G172G	WESY	87-100	6G281K	WESY	52-6
2NB1017	NSC	73-64	4XHH	WLD	43-39	6F253D	WESY	29-57	6G173D	WESY	87-101	6G282D	WESY	52-7
2NB1018	NSC	31-83	4XHM	WLD	43-12	6F253G	WESY	29-58	6G173G	WESY	87-102	6G282G	WESY	52-8
2NB2000	NSC	102-29	4XLH	WLD	89-30	6F260D	WESY	25-52	6G180G	WESY	87-103	6G283D	WESY	52-9
2NB2001	NSC	110-7	4XLM	WLD	89-25	6F260G	WESY	25-53	6G180K	WESY	87-104	6G283G	WESY	52-10
2NB2002	NSC	31-85	6AD9093-1	ELLB	23-13	6F260K	WESY	25-54	6G181G	WESY	87-105	6G290G	WESY	86-38
2NB2003	NSC	84-3	6AD9093-9	ELLB	23-17	6F261D	WESY	25-55	6G181K	WESY	87-106	6G290K	WESY	86-39
2NB2004	NSC	98-67	6AD9094-1	ELLB	23-57	6F261G	WESY	25-56	6G182D	WESY	87-107	6G291G	WESY	86-40
2NB2005	NSC	37-54	6AD9094-9	ELLB	23-61	6F261K	WESY	25-57	6G182G	WESY	87-108	6G291K	WESY	86-41
2NB2006	NSC	37-55	6AD9097-1	ELLB	23-58	6F262D	WESY	25-58	6G183D	WESY	87-109	6G292D	WESY	86-42
2NB2007	NSC	59-18	6AD9097-9	ELLB	23-62	6F262G	WESY	25-59	6G183G	WESY	87-110	6G292G	WESY	86-43
2NB2014	NSC	59-19	6AD9099-1	ELLB	23-14	6F262K	WESY	25-60	6G190G	WESY	81-108	6G293D	WESY	86-44
2NB2017	NSC	73-65	6AD9099-9	ELLB	23-18	6F263D	WESY	25-61	6G190K	WESY	81-109	6G293G	WESY	86-45
2NB2018	NSC	31-86	6AH9000-1	ELLB	21-55	6F263G	WESY	25-62	6G191G	WESY	81-110	6G300G	WESY	52-85
2NB3000	NSC	102-30	6AH9000-9	ELLB	21-56	6F263K	WESY	25-63	6G191K	WESY	82-1	6G300K	WESY	52-86
2NB3001	NSC	110-8	6AH9001-1	ELLB	21-57	6G40G	WESY	81-68	6G192D	WESY	82-2	6G301G	WESY	52-87
2NB3002	NSC	31-89	6AH9001-9	ELLB	21-58	6G40K	WESY	81-69	6G192G	WESY	82-3	6G301K	WESY	52-88
2NB3003	NSC	84-4	6AH9020-1	ELLB	21-59	6G41G	WESY	81-70	6G193D	WESY	82-4	6G302D	WESY	52-89
2NB3004	NSC	98-68	6AH9020-9	ELLB	21-60	6G41K	WESY	81-71	6G193G	WESY	82-5	6G302G	WESY	52-90
2NB3005	NSC	37-58	6AH9022-1	ELLB	21-61	6G42D	WESY	81-72	6G200G	WESY	79-53	6G303D	WESY	52-91
2NB3006	NSC	37-59	6AH9022-9	ELLB	21-62	6G42G	WESY	81-73	6G200K	WESY	79-54	6G303G	WESY	52-92
2NB3007	NSC	59-24	6F10G	WESY	31-104	6G43D	WESY	81-74	6G201G	WESY	79-55	6G310G	WESY	52-93
2NB3014	NSC	59-25	6F10K	WESY	31-105	6G43G	WESY	81-75	6G201K	WESY	79-56	6G310K	WESY	52-94
2NB3017	NSC	73-69	6F11G	WESY	31-106	6G50G	WESY	54-110	6G202D	WESY	79-57	6G311G	WESY	52-95
2NB3018	NSC	31-90	6F11K	WESY	31-107	6G50K	WESY	55-1	6G202G	WESY	79-58	6G311K	WESY	52-96
2NB4000	NSC	102-31	6F12D	WESY	31-108	6G51G	WESY	55-2	6G203D	WESY	79-59	6G312D	WESY	52-97
2NB4001	NSC	110-9	6F12G	WESY	31-109	6G51K	WESY	55-3	6G203G	WESY	79-60	6G312G	WESY	52-98
2NB4002	NSC	31-87	6F13D	WESY	31-110	6G52D	WESY	55-4	6G210D	WESY	52-73	6G313D	WESY	52-99
2NB4003	NSC	84-5	6F13G	WESY	32-1	6G52G	WESY	55-5	6G210G	WESY	52-74	6G313G	WESY	52-100
2NB4004	NSC	98-69	6F20G	WESY	34-89	6G53D	WESY	55-6	6G210K	WESY	52-75	6GEH	WLD	87-14
2NB4005	NSC	37-56	6F20K	WESY	34-90	6G53G	WESY	55-7	6G211D	WESY	52-76	6M10G	WESY	96-102
2NB4006	NSC	37-57	6F21G	WESY	34-91	6G60G	WESY	81-76	6G211G	WESY	52-77	6M10K	WESY	96-103
2NB4007	NSC	59-20	6F21K	WESY	34-92	6G60K	WESY	81-77	6G211K	WESY	52-78	6M11G	WESY	96-104
2NB4014	NSC	59-21	6F22D	WESY	34-93	6G61G	WESY	81-78	6G212D	WESY	52-61	6M11K	WESY	96-105
2NB4017	NSC	73-66	6F22G	WESY	34-94	6G61K	WESY	81-79	6G212G	WESY	52-62	6M12D	WESY	96-106
2NB4018	NSC	31-88	6F23D	WESY	34-95	6G62D	WESY	81-80	6G212K	WESY	52-63	6M12G	WESY	96-107
2NC1008	NSC	97-105	6F23G	WESY	34-96	6G62G	WESY	81-81	6G213D	WESY	52-64	6M13D	WESY	96-108
2NC1009	NSC	102-32	6F30G	WESY	34-23	6G63D	WESY	81-82	6G213G	WESY	52-65	6M13G	WESY	96-109
2NC1010	NSC	73-58	6F30K	WESY	34-24	6G63G	WESY	81-83	6G213K	WESY	52-66	6M20G	WESY	96-110
2NC1011	NSC	73-59	6F31G	WESY	34-25	6G70G	WESY	53-7	6G220D	WESY	74-108	6M20K	WESY	97-1
2NC1012	NSC	98-70	6F31K	WESY	34-26	6G70K	WESY	53-8	6G220G	WESY	74-109	6M21G	WESY	97-2
2NC1013	NSC	34-10	6F32D	WESY	34-27	6G71G	WESY	53-9	6G220K	WESY	74-110	6M21K	WESY	97-3
2NC1021	NSC	87-61	6F32G	WESY	34-28	6G71K	WESY	53-10	6G221D	WESY	75-1	6M22D	WESY	97-4
2NC2008	NSC	97-106	6F33D	WESY	34-29	6G72D	WESY	53-11	6G221G	WESY	75-2	6M22G	WESY	97-5
2NC2009	NSC	102-33	6F33G	WESY	34-30	6G72G	WESY	53-12	6G221K	WESY	75-3	6M23D	WESY	97-6
2NC2010	NSC	73-60	6F50G	WESY	24-42	6G73D	WESY	53-13	6G222D	WESY	74-90	6M23G	WESY	97-7
2NC2011	NSC	73-61	6F50K	WESY	24-43	6G73G	WESY	53-14	6G222G	WESY	74-91	6M30G	WESY	97-8
2NC2012	NSC	98-71	6F51G	WESY	24-44	6G81G	WESY	104-61	6G222K	WESY	74-92	6M30K	WESY	97-9
2NC2013	NSC	34-11	6F51K	WESY	24-45	6G81K	WESY	104-62	6G223D	WESY	74-93	6M31G	WESY	97-10
2NC2021	NSC	87-62	6F52D	WESY	24-46	6G82D	WESY	104-63	6G223G	WESY	74-94	6M31K	WESY	97-11
2NC3008	NSC	97-107	6F52G	WESY	24-47	6G82G	WESY	104-64	6G223K	WESY	74-95	6M32D	WESY	97-12
2NC3009	NSC	102-34	6F53D	WESY	24-48	6G83D	WESY	104-65	6G230D	WESY	85-54	6M32G	WESY	97-13
2NC3010	NSC	73-67	6F53G	WESY	24-49	6G83G	WESY	104-66	6G230G	WESY	85-55	6M33D	WESY	97-14
2NC3011	NSC	73-68	6F60G	WESY	28-81	6G90G	WESY	83-82	6G230K	WESY	85-56	6M33G	WESY	97-15
2NC3012	NSC	98-72	6F60K	WESY	28-82	6G90K	WESY	83-83	6G231D	WESY	85-57	6M40G	WESY	97-16
2NC3013	NSC	34-13	6F61G	WESY	28-83	6G91G	WESY	83-84	6G231G	WESY	85-58	6M40K	WESY	97-17
2NC3021	NSC	87-63	6F61K	WESY	28-84	6G91K	WESY	83-85	6G231K	WESY	85-59	6M41G	WESY	97-18
2NC4008	NSC	97-108	6F62D	WESY	28-85	6G92D	WESY	83-86	6G232D	WESY	85-78	6M41K	WESY	97-19
2NC4009	NSC	102-35	6F62G	WESY	28-86	6G92G	WESY	83-87	6G232G	WESY	85-79	6M42D	WESY	97-20
2NC4010	NSC	73-62	6F63D	WESY	28-87	6G93D	WESY	83-88	6G232K	WESY	85-80	6M42G	WESY	97-21
2NC4011	NSC	73-63	6F63G	WESY	28-88	6G93G	WESY	83-89	6G233D	WESY	85-81	6M43D	WESY	97-22
2NC4012	NSC	98-73	6F100G	WESY	25-96	6G100G	WESY	55-8	6G233G	WESY	85-82	6M43G	WESY	97-23
2NC4013	NSC	34-12	6F100K	WESY	25-97	6G100K	WESY	55-9	6G233K	WESY	85-83	6M50G	WESY	110-74
2NC4021	NSC	87-64	6F101G	WESY	25-98	6G101G	WESY	55-10	6G240D	WESY	75-4	6M50K	WESY	110-75
2PAM	WLD	108-100	6F101K	WESY	25-99	6G101K	WESY	55-11	6G240G	WESY	75-5	6M51G	WESY	110-76
2RRD	WLD	106-29	6F102D	WESY	25-100	6G102D	WESY	55-12	6G240K	WESY	75-6	6M51K	WESY	110-77
2SSM	WLD	91-67	6F102G	WESY	25-101	6G102G	WESY	55-13	6G241D	WESY	75-7	6M52D	WESY	110-78
2STM	WLD	103-69	6F103D	WESY	25-102	6G103D	WESY	55-14	6G241G	WESY	75-8	6M52G	WESY	110-79
3DSAL	WLD	108-104	6F103G	WESY	25-103	6G103G	WESY	55-15	6G241K	WESY	75-9	6M53D	WESY	110-80
3DSL	WLD	108-105	6F110G	WESY	25-104	6G110G	WESY	55-16	6G242D	WESY	74-96	6M53G	WESY	110-81
3ID9093-1	ELLB	23-11	6F110K	WESY	25-105	6G110K	WESY	55-17	6G242G	WESY	74-97	6M60G	WESY	110-35
3ID9093-9	ELLB	23-15	6F111G	WESY	25-106	6G111G	WESY	55-18	6G242K	WESY	74-98	6M60K	WESY	110-36
3ID9094-1	ELLB	23-55	6F111K	WESY	25-107	6G111K	WESY	55-19	6G243D	WESY	74-99	6M61G	WESY	110-37
3ID9094-9	ELLB	23-59	6F112D	WESY	25-108	6G112D	WESY	55-20	6G243G	WESY	74-100	6M61K	WESY	110-38
3ID9097-1	ELLB	23-56	6F112G	WESY	25-109	6G112G	WESY	55-21	6G243K	WESY	74-101	6M62D	WESY	110-39
3ID9097-9	ELLB	23-60	6F113D	WESY	25-110	6G113D	WESY	55-22	6G250D	WESY	52-79	6M62G	WESY	110-40
3ID9099-1	ELLB	23-12	6F113G	WESY	26-1	6G113G	WESY	55-23	6G250G	WESY	52-80	6M63D	WESY	110-41
3ID9099-9	ELLB	23-16	6F120G	WESY	26-48	6G120G	WESY	81-84	6G250K	WESY	52-81	6M63G	WESY	110-42
3IH9000-1	ELLB	21-51	6F120K	WESY	26-49	6G120K	WESY	81-85	6G251D	WESY	52-82	6M70G	WESY	110-43
3IH9000-9	ELLB	21-52	6F121G	WESY	26-50	6G121G	WESY	81-86	6G251G	WESY	52-83	6M70K	WESY	110-44
3IH9001-1	ELLB	21-53	6F121K	WESY	26-51	6G121K	WESY	81-87	6G251K	WESY	52-84	6M71G	WESY	110-45
3IH9001-9	ELLB	21-54	6F122D	WESY	26-52	6G122D	WESY	81-88	6G252D	WESY	52-67	6M71K	WESY	110-46
3IH9020-1	ELLB	21-91	6F122G	WESY	26-53	6G122G	WESY	81-89	6G252G	WESY	52-68	6M72D	WESY	110-47
3IH9020-9	ELLB	21-95	6F123D	WESY	26-54	6G123D	WESY	81-90	6G252K	WESY	52-69	6M72G	WESY	110-48
3IH9022-1	ELLB	21-92	6F123G	WESY	26-55	6G123G	WESY	81-91	6G253D	WESY	52-70	6M73D	WESY	110-49
3IH9022-9	ELLB	21-96	6F130G	WESY	26-56	6G130G	WESY	81-92	6G253G	WESY	52-71	6M73G	WESY	110-50
3NB1015	NSC	59-17	6F130K	WESY	26-57	6G130K	WESY	81-93	6G253K	WESY	52-72	6M80G	WESY	110-10
3NB1026	NSC	23-88	6F131G	WESY	26-58	6G131G	WESY	81-94	6G260D	WESY	75-10	6M80K	WESY	110-11
3NB1027	NSC	99-77	6F131K	WESY	26-59	6G131K	WESY	81-95	6G260G	WESY	75-11	6M81G	WESY	110-12
3NB2015	NSC	59-22	6F132D	WESY	26-60	6G132D	WESY	81-96	6G260K	WESY	75-12	6M81K	WESY	110-13
3NB2026	NSC	23-92	6F132G	WESY	26-61	6G132G	WESY	81-97	6G261D	WESY	75-13	6M82D	WESY	110-14
3NB2027	NSC	99-78	6F133D	WESY	26-62	6G133D	WESY	81-98	6G261G	WESY	75-14	6M82G	WESY	110-15
3NB3015	NSC	59-26	6F133G	WESY	26-63	6G133G	WESY	81-99	6G261K	WESY	75-15	6M83D	WESY	110-16
3NB3026	NSC	23-94	6F200G	WESY	29-64	6G140G	WESY	81-100	6G262D	WESY	74-102	6M83G	WESY	110-17

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK

Δ-Registered with JEDEC by this manufacturer

Obs-In this book

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
6M90G	WESY	98- 1	116BE	TSC	30- 25	325	♦HBC	96- 29	480	♦NCC	101- 37	583BH	♦TSC	65-107
6M90K	WESY	98- 2	116BH	TSC	30- 26	325BCD	♦HBC	96- 30	482	♦NCC	101- 38	583CJ	♦TSC	71- 36
6M91G	WESY	98- 3	116CE	TSC	30- 27	325BG	♦TSC	71- 91	486M	♦NCC	47- 5	584BH	♦TSC	65-108
6M91K	WESY	98- 4	117AE	TSC	106-108	325BN	♦TSC	71- 92	488△	NCC	96- 65	584CJ	♦TSC	71- 37
6M92D	WESY	98- 5	117AH	TSC	106-109	325BP8	♦HBC	96- 31	489△	NCC	103- 76	587BH	♦TSC	65-109
6M92G	WESY	98- 6	117BE	TSC	106-110	325BP10	♦HBC	96- 32	500BH	♦TSC	65- 82	587CJ	♦TSC	71- 38
6M93D	WESY	98- 7	117BH	TSC	107- 1	325CG	♦TSC	71- 93	500CJ	♦TSC	71- 12	682	DTC	89- 22
6M93G	WESY	98- 8	117CE	TSC	107- 2	325CN	♦TSC	71- 94	501	♦HBC	95- 43	690	DTC	33-102
8IAH	WLD	101- 69	121AE	TSC	57- 3	326BG	♦TSC	71- 82	501A	TSC	75- 60	694	DTC	73- 3
8IAM	WLD	101- 90	121AH	TSC	57- 4	326BJ	♦TSC	71- 83	501BH	♦TSC	65- 83	701	HBC	108- 99
8LMD	WLD	47- 38	121BE	TSC	57- 5	326BN	♦TSC	71- 84	501CJ	♦TSC	71- 13	702	HBC	108-102
8NID	WLD	105- 55	121BH	TSC	57- 6	326CG	♦TSC	71- 85	502-02	GECB	59- 11	702A	DTC	73- 4
10A	♦ITTW	80- 74	121CE	TSC	57- 7	326CN	♦TSC	71- 86	502-03	GECB	59- 12	702B	DTC	73- 5
10B	♦ITTW	80- 75	122AE	TSC	57- 8	330-10	♦HBC	96- 33	502-05	GECB	59- 13	702C	DTC	73- 6
10C	♦ITTW	80- 76	122AH	TSC	57- 9	330-11	♦HBC	96- 34	502-06	GECB	59- 14	706	DTC	83- 53
10D	♦ITTW	80- 77	122BE	TSC	57- 10	330-12	♦HBC	96- 35	502A	TSC	61- 42	722-33-3M	♦FSC	95- 81
11A	♦ITTW	100-101	122BH	TSC	57- 11	331AG	TSC	87- 17	502AH	TSC	61- 43	722-34-3M	♦FSC	95- 82
11B	♦ITTW	100-102	122CE	TSC	57- 12	331BG	♦TSC	86- 84	503BH	♦TSC	65- 84	801	HBC	108- 67
11C	♦ITTW	100-103	123AE	TSC	57- 13	331BJ	♦TSC	86- 85	503CJ	♦TSC	71- 14	802	HBC	108- 68
11G137	♦ADC	37- 21	123AH	TSC	57- 14	331BN	♦TSC	86- 86	504BH	♦TSC	65- 85	815	DTC	31- 63
11G333	♦ADC	101- 22	123BE	TSC	57- 15	331CG	♦TSC	86- 87	504CJ	♦TSC	71- 15	819A	DTC	32- 57
11G538	♦ADC	46-104	123BH	TSC	57- 16	331CN	♦TSC	86- 88	505BH	♦TSC	65- 86	827	DTC	43- 84
11G2311-01	♦ADC	86- 99	123CE	TSC	57- 17	340	♦HBC	96- 36	505CJ	♦TSC	71- 16		ROA	
11G2312	♦ADC	54- 13	124AE	TSC	57- 18	340E	♦HBC	96- 37	507BH	♦TSC	65- 87	846	BEC	96- 13
11G2312-01	♦ADC	54- 14	124AH	TSC	57- 19	341AG	TSC	98- 60	507CJ	♦TSC	71- 17	847	BEC	96- 14
11G2321	♦ADC	49- 27	124BE	TSC	57- 20	341BG	♦TSC	83- 27	508BH	♦TSC	75- 16	871	BEC	95- 52
11G2321-01	♦ADC	86-100	124BH	TSC	57- 21	341BJ	♦TSC	83- 28	508CJ	♦TSC	75- 19	922	OEI	108- 69
11G2322	♦ADC	54- 15	124CE	TSC	57- 22	341BN	♦TSC	83- 29	509BH	♦TSC	22- 58	923	OEI	108- 70
11G2322-01	♦ADC	54- 16	125AE	TSC	57- 23	341CG	♦TSC	83- 30	509CJ	♦TSC	22- 59	950	ROA	95- 5
11G2378	♦ADC	86-101	125BE	TSC	57- 24	341CN	♦TSC	83- 31	510BCD	♦HBC	95- 44	1001-002	EGI	84- 21
11G2378-01	♦ADC	86-102	125BH	TSC	57- 25	342AG	TSC	92- 94	510BH	TSC	68- 43	1001-003	EGI	100- 92
11G2378A	♦ADC	86-103	125CE	TSC	57- 26	342BG	♦TSC	92- 46	511A	TSC	33- 95	1001-004	EGI	35- 61
11G2378B	♦ADC	86-104	126AE	TSC	57- 27	342BJ	♦TSC	92- 47	511BH	TSC	68- 44	1001-004A	EGI	35- 62
11G3328	♦ADC	105- 97	126AH	TSC	57- 28	342BN	♦TSC	92- 48	512BH	TSC	33- 44	1001-005	EGI	105- 33
11G3346	♦ADC	105- 4	126BE	TSC	57- 29	342CG	♦TSC	92- 49	513BH	TSC	68- 45	1011	DEC	87- 44
11G3363	♦ADC	105- 95	126BH	TSC	57- 30	342CN	♦TSC	92- 50	519	♦HBC	95- 45	1026-0004	EGI	70- 54
11G3365	♦ADC	105- 96	126CE	TSC	57- 31	350	♦HBC	96- 38		OEI		1026-0005	EGI	70- 55
11G3372	♦ADC	49- 28	128AE	TSC	57- 32	350E	♦HBC	96- 39	520#	OEI	110- 32	1026-0010	EGI	33- 1
11G4311	♦ADC	92- 80	128AH	TSC	57- 33	360	♦HBC	96- 40	521A	TSC	72- 96	1026-0014	EGI	105- 75
13A	♦ITTW	35- 66	128BE	TSC	57- 34	361BG	♦TSC	98- 90	522A	TSC	61- 44	1026-0019	EGI	105- 34
13B	♦ITTW	91- 85	128BH	TSC	57- 35	361BJ	♦TSC	98- 91	525	CEM	105- 86	1039-0002	EGI	28- 15
13C	♦ITTW	91- 86	128CE	TSC	57- 36	361CG	♦TSC	98- 92	525BN	♦TSC	68- 46	1039-0003	EGI	33- 2
13D	♦ITTW	103- 68	130MY#1	RTCF	64- 14	362BG	♦TSC	98- 93	526BN	♦TSC	68- 47	1039-0006	EGI	87- 15
130MY	♦RTCF	64- 12	130MY#2	RTCF	64- 15	362BJ	♦TSC	98- 94	527BN	♦TSC	68- 48	1039-0007	EGI	105- 99
14A	♦ITTW	106- 14	130MY#3	RTCF	64- 16	362CG	♦TSC	98- 95	528BN	♦TSC	68- 49	1040-0012	EGI	35- 76
14B	♦ITTW	106- 15	130MY#4	RTCF	64- 17	370BG	♦TSC	38- 22	529BN	♦TSC	22- 10	1048	EGI	89- 63
14C	♦ITTW	106- 16	131AE	TSC	85- 22	370BJ	♦TSC	38- 23	530BH	♦TSC	65- 88	1103	DEC	102- 7
140MY	RTCF	64- 13	131AH	TSC	85- 23	370BN	♦TSC	38- 24	530CJ	♦TSC	71- 18	1105	DEC	102- 8
160MY	♦RTCF	102- 68	131BE	TSC	85- 24	370CG	♦TSC	38- 25	531BH	♦TSC	65- 89	1110	DEC	63- 27
260MY	♦RTCF	84- 12	131BH	TSC	85- 25	370CN	♦TSC	38- 26	531CJ	♦TSC	71- 19	1111	DEC	63- 23
270MY	♦RTCF	33- 94	131CE	TSC	85- 26	371CG	♦TSC	42- 32	533BH	♦TSC	65- 90	1113	DEC	63- 24
035L	WLD	53-105	132AE#	TSC	98- 10	371CN	♦TSC	42- 33	533CJ	♦TSC	71- 20	1115	DEC	63- 25
43B4	♦THCF	34- 15	132AH	TSC	99- 86	372CG	♦TSC	42- 34	534BH	♦TSC	65- 91	1117	DEC	63- 26
43B4P1	♦THCF	34- 16	132BE	TSC	99- 87	372CN	♦TSC	42- 35	535BH	♦TSC	65- 92	1130	DEC	53- 57
43B4P2	♦THCF	34- 17	132BH	TSC	99- 88	380BG	♦TSC	47- 11	535CJ	♦TSC	71- 21	1134A	GME	98- 16
43B4P	♦THCF	34- 18	132CE	TSC	99- 89	380BJ	♦TSC	47- 12	537BH	♦TSC	65- 93	1134D2	GME	76- 17
044L	WLD	53-106	140MY#1	RTCF	64- 18	380BN	♦TSC	47- 13	537CJ	♦TSC	71- 22	1134D3	GME	76- 18
44B4	♦THCF	80- 34	140MY#2	RTCF	64- 19	380CG	♦TSC	47- 14	538BH	♦TSC	75- 17	1134E	GME	85- 32
44B4P	♦THCF	80- 35	140MY#3	RTCF	64- 20	380CN	♦TSC	47- 15	538CJ	♦TSC	75- 20	1134G	GME	76- 19
45B4	♦THCF	84- 23	140MY#4	RTCF	64- 21	401	HBC	108- 64	539BH	♦TSC	22- 89	1134H	GME	82-109
45B4P	♦THCF	84- 24	141AE	TSC	98- 11	402	♦NCC	32- 73	539CJ	♦TSC	22- 60	1134R	GME	89- 1
46B4	♦THCF	76- 9	141AH	TSC	98- 12	402△	HBC	108- 65	540BH	♦TSC	65- 94	1150	DEC	46- 32
46B4P	♦THCF	76- 10	141BE	TSC	98- 13	402#	♦NCC	32- 74	540CJ	♦TSC	71- 23	1151	DEC	46- 33
47B4	♦THCF	83- 21	141BH	TSC	98- 14	403	♦NCC	35- 79	541BH	♦TSC	65- 95	1161	DEC	47- 23
47B4P	♦THCF	83- 22	141CE	TSC	98- 15	403△	HBC	108- 66	541CJ	♦TSC	71- 24	1201	DEC	35- 28
62B4	♦THCF	48- 10	142AE	TSC	107- 3	403#	♦NCC	35- 80	543BH	♦TSC	65- 96	1204	DEC	35- 29
62B4P	♦THCF	48- 11	142AH	TSC	107- 4	404	♦NCC	38- 9	543CJ	♦TSC	71- 25	1209	DEC	35- 30
63B4	♦THCF	80- 36	142BE	TSC	107- 5	405	♦NCC	37- 72	544BH	♦TSC	65- 97	1213	DEC	37- 64
63B4P	♦THCF	80- 37	142BH	TSC	107- 6	406	♦NCC	31- 11	544CJ	♦TSC	71- 26	1254D3	PHIL	48- 12
66B4	SESC	74- 85	142CE	TSC	107- 7	407	♦NCC	32- 95	545BE	TSC	37- 42	1254DD	PHIL	84- 27
66B4P	SESC	74- 86	215	DTC	33-101	408	♦NCC	37- 24	545BH	TSC	37- 43	1254G6	PHIL	84- 28
67B4	SESC	74- 87	231	DTC	46- 5	409	♦NCC	37- 83	547	OEI	109- 6	1263Q	PHIL	99- 90
67B4P	SESC	74- 88	301	♦HBC	96- 41	410	♦NCC	43- 20	547BH	♦TSC	65- 98	1264B3	PHIL	78- 76
68B4	SESC	30- 10	301AG	TSC	72- 7	411	♦NCC	44- 55	547CJ	♦TSC	71- 27	1264B	PHIL	35- 13
68B4P	SESC	30- 11	302	♦HBC	96- 42	412	♦NCC	42- 22	548BH	♦TSC	65- 99	1264D2	PHIL	78- 77
69B4	♦THCF	76- 72	302CN	♦TSC	69- 93	412N	♦NCC	44- 36	548CJ	♦TSC	71- 28	1264D3	PHIL	78- 78
69B4P	♦THCF	76- 73	303BG	♦TSC	71- 87	415△	♦NCC	44- 37	551A	TSC	90- 21	1264D4	PHIL	78- 79
70B4	♦THCF	84- 25	303BN	♦TSC	71- 88	416	♦NCC	32- 96	560BE	TSC	72- 8	1264D5	PHIL	78- 80
70B4P	♦THCF	84- 26	303CG	♦TSC	71- 89	418	♦NCC	37- 73	560BH	TSC	72- 9	1264DR	PHIL	78- 81
72B4	♦THCF	76- 11	303CN	♦TSC	71- 90	425△	♦NCC	98- 56	561A	TSC	99- 19	1264E3	PHIL	78- 82
72B4P	♦THCF	76- 12	305	DTC	44- 91	426	♦NCC	110- 90	561BE	TSC	54- 87	1264E4	PHIL	78- 83
73B4	♦THCF	78- 96	311AG	TSC	23- 32	430	♦NCC	109- 23	561BH	TSC	54- 88	1264G9	PHIL	78- 84
73B4P	♦THCF	78- 97	311BG	♦TSC	22- 81	438	♦NCC	109- 24	562A	TSC	99- 20	1264JK	GME	21- 33
77B4P1	♦THCF	34- 19	311BN	♦TSC	22- 82	439	♦NCC	95- 10	563BE	TSC	31- 49	1264P	PHIL	78- 85
77B4P2	♦THCF	34- 20	311CG	♦TSC	22- 83	440△	♦NCC	47- 3	563BH	TSC	31- 50	1304	DEC	94- 14
78B4	♦THCF	34- 21	311CN	♦TSC	22- 84	441	♦NCC	47- 4	564BE	TSC	60- 92	1310	DEC	91- 16
78B4P	♦THCF	34- 22	312BG	♦TSC	22- 39	443#	♦NCC	102- 89	564BH	TSC	60- 93	1311	DEC	91- 17
102AE	♦TSC	99- 81	312BN	♦TSC	22- 40	444△	♦NCC	109- 25	566BE	TSC	72- 10	1316	DEC	91- 18
102AH	♦TSC	99- 82	312CG	♦TSC	22- 41	445	♦NCC	83-104	566BH	TSC	72- 11	1410	DEC	104- 15
102BE	♦TSC	99- 83	312CN	♦TSC	22- 42	446	♦NCC	95- 11	567	OEI	108- 95	1502	DEC	103- 20
102BH	♦TSC	99- 84	320	♦HBC	96- 28	450△	♦NCC	40- 6	567BE	TSC	99- 21	1534	DEC	95- 6
102CE	♦TSC	99- 85	321	HBC	95- 80	450X1	♦NCC	40- 15	567BH	TSC	99- 22	1535	DEC	95- 7
111AE	TSC	36- 65	321AG	TSC	72- 16	450X2	♦NCC	40- 18	568BE	TSC	99- 23	1537	DEC	95- 18
111AH	TSC	36- 66	321BG	♦TSC	70- 25	450X3	♦NCC	40- 20	568BH	TSC	99- 24	1563	DEC	95- 31
111BE	TSC	36- 67	321BJ	♦TSC	70- 26	450X	♦NCC	40- 21	570	OEI	108- 96	1564	DEC	95- 32
111BH	TSC	36- 68	321BN	♦TSC	70- 27	450XH	♦NCC	40- 22	570BH	♦TSC	65-100	1570	DEC	95- 19
111CE	TSC	36- 69	321CG	♦TSC	70- 28	451	♦NCC	91- 83	570CJ	♦TSC	71- 29	1571	DEC	109- 93
112AE	TSC	36- 70	321CN	♦TSC	70- 29	453	♦NCC	95- 12	571	OEI	108- 97	1572	DEC	106- 57
112AH	TSC	36- 71	322AG	TSC	72- 17	455	♦NCC	101- 31	571BH	♦TSC	65-101	1574	DEC	95- 33
112BE	TSC	36- 72	322BG	♦TSC	70- 30	460	♦NCC	101- 32	571CJ	♦TSC	71- 30	1591	SPP	110- 96
112BH	TSC	36- 73	322BJ	♦TSC	70- 31	460A	♦NCC	101- 33	573BH	♦TSC	65-102	1616	DEC	102-109
112CE	TSC	36- 74	322BN	♦TSC	70- 32	461	♦NCC	101- 34	573CJ	♦TSC	71- 31	1667	DEC	102- 9
113AE	TSC	36- 75	322CG	♦TSC	70- 33	462	♦NCC	75- 76	574BH	♦TSC	65-103	1672	DEC	102-110
113AH	TSC	36- 76	322CN	♦TSC	70- 34	462A	♦NCC	82- 96	574CJ	♦TSC	71- 32	1675	DEC	105- 25
113BE	TSC	36- 77	323BG	♦TSC	69- 94	463	♦NCC	75- 77	575BH	♦TSC	65-104	1677	DEC	96- 95
113BH	TSC	36- 78	323BJ	♦TSC	69- 95	466	♦NCC	75- 85	575CJ	♦TSC	71- 33	1681	MEL	102- 10
113CE	TSC	36- 79	323BN	♦TSC	69- 96	469	♦NCC	56- 54	577BH	♦TSC	65-105	1685	DEC	103- 1
114AE	TSC	36- 80	323CG	♦TSC	69- 97	470	♦NCC	106- 32	577CJ	♦TSC	71- 34	1687	DEC	103- 44
114AH	TSC	36- 81	323CN	♦TSC	69- 98	471	♦NCC	106- 33	578BH	♦TSC	75- 18	1689	DEC	103- 45
114BE	TSC	36- 82	324BG	♦TSC	71- 77	472	♦NCC	105- 9	578CJ	♦TSC	75- 21	1690	DEC	103- 2
114BH	TSC	36- 83	324BJ	♦TSC	71- 78	473	♦NCC	106- 34	579BH	♦TSC	24- 1	1691	DEC	103- 3
114CE	TSC	36- 84	324BN	♦TSC	71- 79	478	♦NCC	101- 35	579CJ	♦TSC	22- 61	1692	DEC	103- 46
116AE	TSC	30- 23	324CG	♦TSC	71- 80	478A	♦NCC	101- 36	580BH	♦TSC	65-106	1693	DEC	103- 47
116AH	TSC	30- 24	324CN	♦TSC	71- 81	479	♦NCC	109- 2	580CJ	♦TSC	71- 35	1703	DEC	103- 4

D.A.T.A.

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK

Obs-In this book

△-Registered with JEDEC by this manufacturer

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
1803	DEC	105-101
1804	DEC	106-35
1807	DEC	105-98
1990	DEC	106-55
2001BE	♦TSC	61-11
2107BE	♦TSC	96-71
2110BE	♦TSC	96-72
2114BF	♦TSC	96-73
2126BG	♦TSC	96-74
2128BG	♦TSC	96-75
2134A	GME	98-17
2134D2	GME	76-20
2134D3	GME	76-21
2134E	GME	85-33
2134G	GME	76-22
2134H	GME	82-110
2134R	GME	89-2
2254D3	PHIL	48-13
2254DD	PHIL	84-29
2254G6	PHIL	84-30
2263Q	PHIL	99-91
2264B3	PHIL	78-86
2264B	PHIL	35-14
2264D2	PHIL	78-87
2264D3	PHIL	78-88
2264D4	PHIL	78-89
2264D5	PHIL	78-90
2264DR	PHIL	78-91
2264E3	PHIL	78-92
2264E4	PHIL	78-93
2264G9	PHIL	78-94
2264JK	GME	21-34
2264P	PHIL	78-95
3207	♦ITL	107-8
3320	FSC	90-5
3501-4A-6G	♦FSC	108-4
3501-9A-6G	♦FSC	108-5
3750	FSC	96-69
4013-1-25	♦BUB	107-9
4102	DEC	101-39
4111	DEC	62-106
4112	DEC	63-1
4113	DEC	62-107
4114	DEC	63-2
4115	DEC	62-108
4116	DEC	63-3
4117	DEC	62-109
4118	DEC	63-4
4119	DEC	62-110
4123	DEC	71-46
4125	DEC	71-47
4126	DEC	75-78
4127	DEC	71-48
4128	DEC	75-79
4129	DEC	53-52
4141	DEC	53-53
4143	DEC	53-54
4150	DEC	46-25
4151	DEC	46-26
4155	DEC	46-41
4161	DEC	47-7
4201	DEC	35-15
4202	DEC	89-52
4202A	DEC	89-53
4202B	DEC	89-15
4204	DEC	43-38
4205	DEC	89-16
4209	DEC	35-18
4215	DEC	45-8
4216	DEC	89-28
4217	DEC	35-21
4218	DEC	32-52
4219	DEC	32-53
4220	DEC	32-54
4221	DEC	89-29
4222	DEC	43-37
4223	DEC	89-64
4224	DEC	31-17
4225	DEC	42-65
4226	DEC	89-65
4227	DEC	31-21
4228	DEC	89-66
4231	DEC	89-34
4290	DEC	90-65
4301	DEC	94-13
4303	DEC	94-12
4304	DEC	109-68
4305	DEC	109-69
4306	DEC	93-81
4401	DEC	39-56
4407	DEC	40-25
4410	DEC	103-78
4504	DEC	103-5
4505	DEC	103-6
4506	DEC	103-7
4507	DEC	103-8
4509	DEC	103-9
4514	DEC	109-12
4518	DEC	95-4
4519	DEC	106-52
4521	DEC	109-46
4522	DEC	109-47
4526	DEC	95-9
4550J	♦BUR	106-58
4550K	♦BUR	106-59
4550L	♦BUR	106-60
4550R	♦BUR	106-61
4550S	♦BUR	106-62
4550T	♦BUR	106-63
4609	DEC	103-10
4656	DEC	103-11
4659	DEC	103-12
4660	DEC	103-13
4667	DEC	101-40

TYPE No.	MFRS	Pg&Line
4669	DEC	103-34
4670	DEC	103-35
4671	DEC	47-8
4673	DEC	47-9
4676	DEC	95-8
4678	DEC	96-82
4679	DEC	96-83
4681	DEC	106-36
4682	DEC	106-37
4685	DEC	102-95
4686	DEC	103-14
4688	DEC	109-27
4689	DEC	105-11
4691	DEC	105-10
4901	DEC	104-86
4902	DEC	105-26
4903	DEC	105-27
4906	DEC	104-87
5138A	♦OEI	106-78
5139A	♦OEI	106-79
5146A	♦OEI	106-80
5146C	♦OEI	109-87
5147A	♦OEI	106-81
5174	♦OEI	95-46
5175	♦OEI	95-47
5176	♦OEI	95-79
5182	♦OEI	96-48
5183	♦OEI	96-49
5184	♦OEI	96-85
5185	♦OEI	95-48
5195	♦OEI	106-82
5204	♦OEI	106-77
5204A	♦OEI	108-93
5221A	♦OEI	106-83
5349	♦OEI	111-33
5400-1-6A	♦GECB	66-36
5401-1-6A	♦GECB	66-37
5402-1-6A	♦GECB	58-1
5403-1-6A	GECB	66-38
5404-1-6A	♦GECB	99-92
5405-1-6A	♦GECB	99-93
5408-1-6A	GECB	48-40
5410-1-6A	♦GECB	66-39
5411-1-6A	GECB	48-41
5420-1-6A	♦GECB	66-40
5430	♦OEI	111-32
5430-1-6A	♦GECB	66-41
5440-1-6A	♦GECB	66-42
5441-1-6B	GECB	46-69
5450-1-6A	♦GECB	59-82
5451-1-6A	♦GECB	59-83
5453-1-6A	♦GECB	59-84
5453-9-6A	GECB	59-85
5454-1-6A	♦GECB	59-86
5454-9-6A	GECB	59-87
5460-1-6A	♦GECB	85-92
5470-1-6A	GECB	29-46
5472-1-6A	♦GECB	28-77
5473-1-6A	♦GECB	24-32
5474-1-6A	♦GECB	38-40
5475-1-6B	GECB	37-84
5476-1-6B	GECB	24-33
5482-1-6A	GECB	97-24
5490-1-6A	GECB	42-80
5492-1-6A	GECB	44-46
5493-1-6A	GECB	44-47
5598BM	♦TSC	43-76
5598CM	♦TSC	43-77
5603BM	♦TSC	44-28
5603CM	♦TSC	44-29
5604BM	TSC	44-66
5604CM	TSC	44-67
5605BM	♦TSC	43-17
5605CM	♦TSC	43-18
5606BM	TSC	46-61
5606CM	TSC	46-62
5608BM	TSC	43-10
5608CM	TSC	43-11
5623BM	♦TSC	44-30
5623CM	♦TSC	44-31
5624BM	TSC	44-77
5624CM	TSC	44-78
5625BM	♦TSC	43-42
5625CM	♦TSC	43-43
5626BM	TSC	44-79
5626CM	TSC	44-80
5627BM	TSC	46-63
5627CM	TSC	46-64
5628BM	TSC	43-33
5628CM	TSC	43-34
5641	♦OEI	108-92
5643BM	♦TSC	44-32
5643CM	♦TSC	44-33
5644BM	TSC	44-88
5644CM	TSC	44-89
5645BM	♦TSC	43-78
5645CM	♦TSC	43-79
5646BM	TSC	46-65
5646CM	TSC	46-66
5647	♦OEI	108-103
5647BM	TSC	46-67
5647CM	TSC	46-68
5648BM	TSC	43-62
5648CM	TSC	43-63
5660BM	TSC	96-15
5660CM	TSC	96-16
5661BM	TSC	96-17
5661CM	TSC	96-18
5662BM	TSC	96-19
5662CM	TSC	96-20
5663BM	TSC	96-21
5663CM	TSC	96-22
5700	♦DIS	47-44
5701	♦DIS	47-45

TYPE No.	MFRS	Pg&Line
5702	♦DIS	47-40
5703	♦DIS	47-41
5704	♦DIS	47-42
5800	♦DIS	47-43
6040BN	♦TSC	22-11
6041BN	♦TSC	68-50
6042BN	♦TSC	68-51
6046BN	♦TSC	68-52
6102	DEC	102-38
6105	DEC	102-39
6106	DEC	102-40
6109	DEC	81-27
6110	DEC	63-42
6111	DEC	63-36
6113	DEC	63-37
6114	DEC	63-43
6115	DEC	63-38
6117	DEC	63-39
6118	DEC	63-44
6119	DEC	63-40
6122	DEC	63-45
6123	DEC	81-28
6124	DEC	63-41
6150	DEC	46-38
6151	DEC	46-39
6155	DEC	46-42
6202	DEC	38-5
6207	DEC	38-6
6208	DEC	38-7
6227	DEC	32-62
6292	VAO	40-45
6303	DEC	94-15
6304	DEC	94-16
6310	DEC	91-19
6311	DEC	91-20
6401	DEC	39-107
6403	DEC	40-85
7400	OEI	96-46
7400-9-6A	♦GECB	66-43
7400N	♦ITT	66-44
7401	OEI	96-50
7401-9-6A	♦GECB	66-45
7402	OEI	95-51
7402-9-6A	♦GECB	58-2
7403-9-6A	GECB	66-46
7404	OEI	96-47
7404-9-6A	♦GECB	99-94
7405-9-6A	♦GECB	99-95
7408-9-6A	GECB	48-42
7410-9-6A	♦GECB	66-47
7410N	♦ITT	66-48
7411-9-6A	GECB	48-43
7420-9-6A	♦GECB	66-49
7420N	♦ITT	66-50
7430-9-6A	♦GECB	66-51
7430N	♦ITT	66-52
7440-9-6A	♦GECB	66-53
7441-9-6B	GECB	46-70
7450-9-6A	♦GECB	59-88
7451-9-6A	♦GECB	59-89
7453-9-6A	♦GECB	59-90
7454-9-6A	GECB	59-91
7460-1-6A	GECB	48-1
7460-9-6A	♦GECB	85-93
7470-9-6A	GECB	29-47
7472-9-6A	♦GECB	28-78
7473-9-6A	♦GECB	24-34
7474-9-6A	♦GECB	38-41
7475-9-6B	GECB	37-85
7476-9-6B	GECB	24-35
7482-9-6A	GECB	97-25
7490-9-6A	GECB	42-81
7492-9-6A	GECB	44-48
7493-9-6A	GECB	44-49
8005	BCP	109-48
8010	BCP	109-49
8020	BCP	106-53
8025	BCP	106-54
8030	BCP	53-55
8040	BCP	46-15
8050	BCP	80-81
8055	BCP	93-71
8061	BCP	101-70
8070	BCP	35-96
8090	BCP	106-56
8102	VAO	70-64
8104	DEC	53-60
8105	VAO	71-62
8107	VAO	32-109
8120	DEC	51-101
8200	VAO	36-48
8200A	VAO	36-49
8200B	VAO	36-50
8200C	VAO	36-51
8202	VAO	32-70
8203	VAO	94-17
8204,A-G	VAO	82-95
8205	VAO	103-64
8207	VAO	48-86
8208	VAO	48-87
8209	VAO	48-88
8210	VAO	48-89
8214,A-C	VAO	74-61
8401	DEC	39-109
9000-1-3L	♦FSC	24-28
	♦GECB	
9000-1-6B	♦FSC	24-29
	♦GECB	
9000-1-31	♦FSC	none
Repl.by 9000-1-3I Cur.		
9000-9-3L	♦FSC	24-30
	♦GECB	
9000-9-6B	♦FSC	24-31
	♦GECB	

TYPE No.	MFRS	Pg&Line
9000-9-31	FSC	none
Repl.by 9000-9-3I Cur.		
9001-1-3L	♦FSC	26-36
	♦GECB	
9001-1-6B	♦FSC	26-37
	♦GECB	
9001-9-3L	♦FSC	26-42
	♦GECB	
9001-9-6B	♦FSC	26-43
	♦GECB	
9002-1-3L	♦FSC	65-41
	♦GECB	
9002-1-6B	♦FSC	65-42
	♦GECB	
9002-1-31	none	none
Repl.by 9002-1-3I Cur.		
9002-9-3L	♦FSC	65-67
	♦GECB	
9002-9-6B	♦FSC	65-68
	♦GECB	
9002-9-31	FSC	none
Repl.by 9002-9-3I Cur.		
9003-1-3L	♦FSC	65-43
	♦GECB	
9003-1-6B	♦FSC	65-44
	♦GECB	
9003-1-31	none	none
Repl.by 9003-1-3I Cur.		
9003-9-3L	♦FSC	65-69
	♦GECB	
9003-9-6B	♦FSC	65-70
	♦GECB	
9003-9-31	FSC	none
Repl.by 9003-9-3I Cur.		
9004-1-3L	♦FSC	65-45
	♦GECB	
9004-1-6B	♦FSC	65-46
	♦GECB	
9004-1-31	none	none
Repl.by 9004-1-3I Cur.		
9004-9-3L	♦FSC	65-71
	♦GECB	
9004-9-6B	♦FSC	65-72
	♦GECB	
9004-9-31	FSC	none
Repl.by 9004-9-3I Cur.		
9005-1	GECB	107-10
9005-1-3L	♦FSC	48-24
	♦GECB	
9005-1-6B	♦FSC	48-25
	♦GECB	
9005-9	GECB	107-11
9005-9-3L	♦FSC	48-32
	♦GECB	
9005-9-6B	♦FSC	48-33
	♦GECB	
9005A-1-3I	♦FSC	48-26
9005A-1-3L	♦FSC	48-27
9005A-1-6A	♦FSC	48-28
9005A-1-6B	♦FSC	48-29
9005A-9-3I	♦FSC	48-34
9005A-9-3L	♦FSC	48-35
9005A-9-6A	♦FSC	48-36
9005A-9-6B	♦FSC	48-37
9006-1	GECB	107-12
9006-1-3L	♦FSC	85-51
9006-1-6B	♦FSC	85-52
9006-9	GECB	107-13
9006-9-3L	♦FSC	85-74
	♦GECB	
9006-9-6B	♦FSC	85-75
	♦GECB	
9007-1-3L	♦FSC	65-47
	♦GECB	
9007-1-6B	♦FSC	65-48
	♦GECB	
9007-1-31	none	none
Repl.by 9007-1-3I Cur.		
9007-9-3L	♦FSC	65-73
	♦GECB	
9007-9-6B	♦FSC	65-74
	♦GECB	
9007-9-31	FSC	none
Repl.by 9007-9-3I Cur.		
9008-1	GECB	107-14
9008-1-3L	♦FSC	48-30
	♦GECB	
9008-1-6B	♦FSC	48-31
	♦GECB	
9008-9	GECB	107-15
9008-9-3L	♦FSC	48-38
	♦GECB	
9008-9-6B	♦FSC	48-39
	♦GECB	
9009-1-3L	♦FSC	65-49
	♦GECB	
9009-1-6B	♦FSC	65-50
	♦GECB	
9009-1-31	none	none
Repl.by 9009-1-3I Cur.		
9009-9-3L	♦FSC	65-75
	♦GECB	
9009-9-6B	♦FSC	65-76
	♦GECB	
9009-9-31	FSC	none
Repl.by 9009-9-3I Cur.		
9010	BCP	73-38
9016-1-3L	♦FSC	100-86
	♦GECB	
9016-1-6B	♦FSC	100-87
	♦GECB	
9016-1-31	none	none
Repl.by 9016-1-3I Cur.		

TYPE No.	MFRS	Pg&Line
9016-9-3L	♦FSC	100-88
	♦GECB	
9016-9-6B	♦FSC	100-89
	♦GECB	
9016-9-31	none	none
Repl.by 9016-9-3I Cur.		
9020	BCP	59-8
9020-1	GECB	21-93
9020-1-3I	♦FSC	26-38
	♦GECB	
9020-1-6A	♦FSC	26-39
	♦GECB	
9020-9	GECB	21-97
9020-9-3I	♦FSC	26-44
	♦GECB	
9020-9-6A	♦FSC	26-45
	♦GECB	
9022-1	GECB	21-94
9022-1-3I	♦FSC	26-40
	♦GECB	
9022-1-6A	♦FSC	26-41
	♦GECB	
9022-9	GECB	21-98
9022-9-3I	♦FSC	26-46
	♦GECB	
9022-9-6A	♦FSC	26-47
	♦GECB	
9030	BCP	46-18
9034-1A-6B	♦FSC	108-71
9034-1B-6B	♦FSC	108-72
9034-9A-6B	♦FSC	108-73
9034-9B-6B	♦FSC	108-74
9040	BCP	23-44
9040-1-3I	FSC	37-92
9040-1-6A	♦FSC	37-107
9040-1-31	♦FSC	none
Repl.by 9040-1-3I Obs.		
9041-1-3I	♦FSC	37-93
		65-51
9041-1-6A	♦FSC	65-52
9041-1-31	♦FSC	none
Repl.by 9041-1-3I Obs.		
9042-1-3I	♦FSC	65-53
9042-1-6A	♦FSC	65-54
9042-1-31	♦FSC	none
Repl.by 9042-1-3I Obs.		
9043-1-3I	♦FSC	65-77
9043-1-6A	♦FSC	65-78
9044-1-3I	♦FSC	65-79
9044-1-6A	♦FSC	65-80
9045	BCP	59-9
9046-1-3I	♦FSC	65-81
9046-1-6A	♦FSC	65-55
9047-1-3I	♦FSC	65-56
9047-1-6A	♦FSC	65-57
9050	BCP	89-31
9060	BCP	73-39
9061	BCP	73-40
9062	BCP	73-41
9063	BCP	73-42
9070	BCP	91-21
9093-1-31	FSC	none
Repl.by 9093-1-3I Cur.		
9093-9-31	FSC	none
Repl.by 9093-9-3I Cur.		
9094-1-31	FSC	none
Repl.by 9094-1-3I Cur.		
9094-9-31	FSC	none
Repl.by 9094-9-3I Cur.		
9097-1-31	FSC	none
Repl.by 9097-1-3I Cur.		
9097-9-31	FSC	none
Repl.by 9097-9-3I Cur.		
9099-1-31	FSC	none
Repl.by 9099-1-3I Cur.		
9099-9-31	FSC	none
Repl.by 9099-9-3I Cur.		
9111-9-31	FSC	none
Repl.by 9111-9-3I Cur.		
9300-1	GECB	90-69
9300-9	GECB	90-70
9301-1	GECB	46-6
9301-9	GECB	46-7
9304-1	GECB	97-26
9304-1-3L	♦GECB	97-27
9304-9	GECB	97-28
9304-9-3L	♦GECB	97-29
9306-1-6N	♦FSC	42-51
9306-9-6N	♦FSC	42-52
9307-1	GECB	46-43
9307-9	GECB	46-44
9308-1-4M	GECB	110-51
9308-9-4M	GECB	110-52
9309-1-4L	GECB	110-53
9309-9-4L	GECB	110-54
9311-1-4M	GECB	46-45
9311-9-4M	GECB	46-46
9312-1-4L	GECB	110-55
9312-1-7B	GECB	110-56
9312-9-4L	GECB	110-57
9312-9-7B	GECB	110-58
9314-1-7B	GECB	107-16
9314-9-7B	GECB	107-17
9316-1-4L	GECB	44-4
9316-9-4L	GECB	44-5
9327-9-4L	FSC	46-3
9327-9-7B	FSC	46-4
9337-9-4L	♦FSC	47-73
9337-9-7B	♦FSC	47-74
9601-1-3L	♦GECB	91-31
9601-1-6A	♦GECB	91-32
9601-1-6B	♦GECB	91-33
9601-1-31	♦FSC	none
Repl.by 9601-1-3I Cur.		

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK

Obs-In this book

Δ-Registered with JEDEC by this manufacturer

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
9601-9-3L	♦GECB	91- 37	30013-01-2-801		86- 98	ADC12QET	♦ANA	95- 39	BC13	XDS	53- 29	CD2304D945	RCA	32- 33
9601-9-6A	♦GECB	91- 38		CAE		ADC12T	ANA	95- 28	BC20	♦HIS	42- 71	CD2304E845	RCA	32- 34
9601-9-6B	♦GECB	91- 39	30318-01-2-261		46- 50	ADC12U	ANA	95- 29	BC21	CLC	43- 5	CD2305-948	RCA	32- 35
9601-9-31	♦FSC	none		CAE		ADD2M	♦SCI	98- 58	BC30	♦HIS	42- 74	CD2305D948	RCA	32- 36
Repl.by 9601-9-3I Cur.			30318-02-2-261		46- 51	ADD2Z	♦SCI	98- 57	BC31	♦CLC	43- 94	CD2305E848	RCA	32- 37
9622-1-31	♦FSC	none		CAE		AG11-1	CAM	49- 15	BC35	♦HIS	42- 78	CD2306-932	RCA	72- 79
Repl.by 9622-1-3I Cur.			30350-01-2-268		45- 4	AG11-2	CAM	49- 16	BC37	♦HIS	42- 79	CD2306D932	RCA	72- 80
9622-9-31	♦FSC	none		CAE		AG11-3	CAM	49- 17	BC130	HIS	42- 75	CD2306E832	RCA	72- 87
Repl.by 9622-9-3I Cur.			30614-01-2-268		102- 90	AG12-1	CAM	49- 18	BC320	HIS	43- 45	CD2307-944	RCA	72- 81
9624-1-31	none	none		CAE		AG12-2	CAM	49- 19	BC335	♦HIS	43- 80	CD2307D944	RCA	72- 82
Repl.by 9624-1-3I Cur.			31642-01-2-268		108- 56	AG13-1	CAM	49- 20	BC336	♦HIS	43- 81	CD2307E844	RCA	72- 88
9624-9-31	none	none		CAE		AG14-1	CAM	49- 21	BC337	♦HIS	45- 1	CD2308-962	RCA	72- 83
Repl.by 9624-9-3I Cur.			31642-02-2-268		109- 3	AG21-1	CAM	50- 63	BC803	♦EMC	43- 91	CD2308D962	RCA	72- 84
9625-1-31	none	none		CAE		AG21-2	CAM	50- 64	BC903	EMC	44- 3	CD2308E862	RCA	72- 89
Repl.by 9625-1-3I Cur.			31711	CAE	102- 91	AG21-3	CAM	50- 65	BC5406	♦TRC	43- 92	CD2309-963	RCA	72- 94
9625-9-31	none	none	33098	CAE	102- 92	AG22-1	CAM	50- 66	BC5407	TRC	43- 93	CD2309D963	RCA	72- 95
Repl.by 9625-9-3I Cur.			42281	DEC	89- 67	AG22-2	CAM	50- 67	BCD8	♦UNC	109- 88	CD2309E863	RCA	72- 99
9902-9-5D	SGAI	30- 13	54107-1-6A	GECB	24- 36	AG23-1	CAM	50- 68	BCD8A	♦UNC	109- 89	CD2310/936	♦RCA	99- 96
9906-1-5B	SGAI	36- 58	74107-9-6A	GECB	24- 37	AG24-1	CAM	50- 69	BCD9A	♦UNC	46- 16	CD2310D936	RCA	99- 97
9909-1-5B	SGAI	61- 99	462002	LAI	70- 51	AG31-1	CAM	51- 73	BD809	EMC	47- 46	CD2310E836	RCA	99- 98
9910-1-5B	SGAI	61-100	462003	LAI	70- 52	AG32-1	CAM	51- 74	BD909	EMC	47- 47	CD2311/937	♦RCA	99- 99
9911-1-5B	SGAI	61-101	462004	LAI	70- 53	AND2M	♦SCI	86- 92	BD5416	TRC	46- 53	CD2311D937	RCA	99-100
9921-1-5B	SGAI	84- 31	462005	LAI	100- 93	AND2Z	♦SCI	86- 89	BDML	WLD	46- 96	CD2311E837	RCA	99-101
9926-2-3F	FSC	24- 21	A01A	♦SIX	80- 98	AO11-1	CAM	49- 22	BH10	XDS	53- 32	CD2312	♦RCA	99-102
9926-2-5F	FSC	24- 22	A01F	♦SIX	80- 99	AO21-1	CAM	50- 70	BH11	XDS	56- 48	CD2312D	♦RCA	99-103
9930-1-31	FSC	none	A02A	♦SIX	80-100	AP320	HIS	97- 97	BH12	XDS	53- 42	CD2312E	♦RCA	99-104
Repl.by 9930-1-3I Cur.			A02F	♦SIX	80-101	AP335	♦HIS	98- 61	BIP6002	BUR	105- 57	CD2313	♦RCA	99-105
9931-1-31	FSC	none	A03A	♦SIX	27- 35	AS11-1	CAM	97- 90	BIP8054	♦BUR	44-104	CD2313D	♦RCA	99-106
Repl.by 9931-1-3I Cur.			A03F	♦SIX	27- 36	AS21-1	CAM	97-100	BIP8055	♦BUR	44-105	CD2313E	♦RCA	99-107
9932-1-31	FSC	none	A04A	♦SIX	86- 27	AS5505	♦TRC	39- 78	BIP8211P	♦BUR	46-102	CD2314/933	♦RCA	84- 34
Repl.by 9932-1-3I Cur.			A04F	♦SIX	86- 28	AT10	XDS	112- 60	BIP8501P	BUR	105- 58	CD2314D933	RCA	84- 35
9933-1-31	FSC	none	A05A	♦SIX	80-102	AT11	XDS	112- 22	BIP8503	♦BUR	105- 50	CD2314E833	RCA	84- 36
Repl.by 9933-1-3I Cur.			A05F	♦SIX	80-103	AT12	XDS	112- 23	BIP8507P	BUR	105- 59	CD2315	RCA	23- 19
9935-1-31	none	none	A06A	♦SIX	80-104	AT14	XDS	112- 61	BIP8509	♦BUR	105- 51	CD2315D	RCA	23- 20
Repl.by 9935-1-3I Cur.			A06F	♦SIX	80-105	AT15	XDS	112- 62	BIP8510	♦BUR	105- 52	CD2315E	RCA	23- 23
9935-9-31	none	none	A07A	♦SIX	80-106	AT22	XDS	104- 60	BIP8804-1	♦BUR	47- 55	CD2316	RCA	23- 26
Repl.by 9935-9-3I Cur.			A07F	♦SIX	80-107	ATF451	♦APX	106- 64	BIP8804-2	♦BUR	47- 56	CD2316D	RCA	23- 27
9936-9-31	none	none	A08A	♦SIX	93- 15	ATF452	♦APX	106- 65	BIP8806-1	♦BUR	47- 57	CD2316E	RCA	23- 30
Repl.by 9936-9-3I Cur.			A08F	♦SIX	93- 16	AX12	XDS	104- 16	BIP8806-2	♦BUR	47- 58	CD2317	RCA	23- 21
9937-9-31	none	none	A09A	♦SIX	27- 37	AX14	XDS	109- 50	BIP8910-1	♦BUR	47- 59	CD2317D	RCA	23- 22
Repl.by 9937-9-3I Cur.			A09F	♦SIX	27- 38	AY1-5050	♦GIC	110-107	BIP9451	BUR	46-103	CD2317E	RCA	23- 24
9941-1-31	FSC	none	A10A	♦SIX	80-108	AY1-6721-4	♦GIC	110-108	BIP9501	BUR	105- 60	CD2318	RCA	23- 28
Repl.by 9941-1-3I Cur.			A10F	♦SIX	80-109	AY1-6721-5	♦GIC	110-109	BIP9502	BUR	105- 61	CD2318D	RCA	23- 29
9941-9-3I	♦GECB	91- 58	A11A	♦SIX	98- 74	AY1-6721-6	♦GIC	110-110	BIP9801-1	♦BUR	47- 60	CD2318E	RCA	23- 31
9941-9-6A	♦GECB	91- 59	A11F	♦SIX	98- 75	AY1-6722	♦GIC	111- 1	BL10	XDS	53- 33	CD4000	♦RCA	61- 23
9944-1-31	FSC	none	A12A	♦SIX	80-110	B01A	SIX	73- 74	BL12	XDS	53- 43	CD4000D	♦RCA	61- 24
Repl.by 9944-1-3I Cur.			A12F	♦SIX	81- 1	B01B	SIX	73- 75	BL13	XDS	53- 30	CD4000E	♦RCA	61- 22
9945-1	GECB	31- 55	A13A	♦SIX	81- 2	B01F	SIX	80- 92	BQDC100	APX	45- 30	CD4001	♦RCA	58- 34
9945-1-31	FSC	none	A13F	♦SIX	81- 3	B02A	SIX	73- 76	BSD12	ANA	106- 66	CD4001D	RCA	58- 35
Repl.by 9945-1-3I Cur.			A14F	♦SIX	81- 4	B02B	SIX	73- 77	BT10	XDS	56- 6	CD4001E	♦RCA	58- 32
9945-9	GECB	31- 58	A15F	♦SIX	81- 5	B02F	SIX	80- 93	BT11	XDS	53- 44	CD4002	♦RCA	58- 36
9945-9-31	FSC	none	A20A	♦SIX	81- 6	B100-1	♦TID	42- 98	BT12	XDS	46- 40	CD4002D	♦RCA	58- 37
Repl.by 9945-9-3I Cur.			A20F	♦SIX	81- 7	B100-2	♦TID	42- 99	BT13	XDS	110- 24	CD4002E	♦RCA	58- 33
9946-1-31	FSC	none	A26H	WLD	50- 20	B100-10	♦TID	42- 36	BT15	XDS	53- 45	CD4003	♦RCA	38- 36
Repl.by 9946-1-3I Cur.			A26M	WLD	49- 29	B100-20	♦TID	105- 48	BT16	XDS	53- 46	CD4003D	♦RCA	38- 37
9948-1	GECB	31- 73	A35H	WLD	50- 21	B100-21	♦TID	105- 49	BT18	XDS	53- 47	CD4004	♦RCA	42- 38
9948-1-31	FSC	none	A35M	WLD	49- 30	B100-50	♦TID	42-100	BT27	XDS	54-104	CD4004AD	♦RCA	43- 99
Repl.by 9948-1-3I Cur.			A41A	♦SIX	81- 8	B100-80	♦TID	42-103	BT31	XDS	51- 51	CD4004AE	♦RCA	43-100
9948-9	GECB	31- 76	A41F	♦SIX	81- 9	B100-82,A.	♦TID	42-101	BTML	WLD	47- 39	CD4004AK	♦RCA	43-101
9948-9-31	FSC	none	A42A	♦SIX	81- 10	B651	♦EBAS	48- 94	C1158	♦AMI	none	CD4004AT	♦RCA	43-102
Repl.by 9948-9-3I Cur.			A42F	♦SIX	81- 11	B652	♦EBAS	53-103	Repl.by R503R Cur.			CD4004E	♦RCA	42- 29
9949-9-31	FSC	none	A43A	♦SIX	27- 39	B653	♦EBAS	48- 95	C1160	♦AMI	none	CD4004T	♦RCA	42- 39
Repl.by 9949-9-3I Cur.			A43F	♦SIX	27- 40	B654	♦EBAS	53-104	Repl.by RD15 Cur.			CD4007	♦RCA	108- 6
9950-1	GECB	34- 83	A44A	♦SIX	86- 29	B655	♦EBAS	70- 65	C1161	♦AMI	109- 33	CD4007D	♦RCA	108- 7
9950-1-31	FSC	none	A44F	♦SIX	86- 30	B656	♦EBAS	58- 46	C1164	♦AMI	none	CD4007E	♦RCA	108- 8
Repl.by 9950-1-3I Cur.			A44H	WLD	50- 22	B657	♦EBAS	53- 62	Repl.by RD135 Cur.			CD4008	RCA	97- 78
9950-9	GECB	34- 86	A44M	WLD	49- 31	B658	♦EBAS	56- 82	C1184	♦AMI	none	CD4008D	♦RCA	97- 79
9950-9-6A	♦GECB	30- 72	A45A	♦SIX	81- 12	B659	♦EBAS	30- 88	Repl.by RD15D Cur.			CD4008E	♦RCA	97- 80
	SGAI		A45F	♦SIX	81- 13	B660	♦EBAS	108- 57	C11001	TSC	95- 2	CD4009	RCA	102- 77
9950-9-31	FSC	none	A46A	♦SIX	81- 14	B663	♦EBAS	100-100	C11004	TSC	107- 18	CD4009D	♦RCA	102- 73
Repl.by 9950-9-3I Cur.			A46F	♦SIX	81- 15	B664	♦EBAS	91- 2	C11008	TSC	107- 19	CD4009E	♦RCA	102- 78
9951-1	GECB	92- 10	A47A	♦SIX	81- 16	B665	♦EBAS	91- 3	C41001	TSC	107- 20	CD4010	RCA	102- 79
9951-1-31	FSC	none	A47F	♦SIX	81- 17	B678	♦EBAS	108- 58	C41008	TSC	107- 21	CD4010D	♦RCA	102- 74
Repl.by 9951-1-3I Cur.			A48A	♦SIX	93- 17	B680	♦EBAS	22- 43	CAG4	♦CRY	111- 15	CD4010E	♦RCA	102- 80
9951-9	GECB	92- 19	A48F	♦SIX	93- 18	B690	♦EBAS	42- 70	CAG4A	♦CRY	96-100	CD4011	♦RCA	70- 43
9958-9-6B	SGAI	42- 30	A49A	♦SIX	27- 41	B691	EBAS	89- 76	CC10	XDS	41- 15	CD4011D	♦RCA	70- 44
9959-9-6B	SGAI	90- 59	A49F	♦SIX	27- 42	B901	EBAS	40- 12	CC11	♦VDM	39- 33	CD4011E	♦RCA	70- 41
9960-9	GECB	46- 8	A50A	♦SIX	81- 18	B902	EBAS	40- 14	CC335	♦EMC	43- 48	CD4012	♦RCA	70- 45
9960-9-6A	SGAI	47- 54	A50F	♦SIX	81- 19	B903	EBAS	40- 23	CC355	♦EMC	43- 15	CD4012D	♦RCA	70- 46
9961-9-31	FSC	none	A51A	SIX	98- 76	B904	EBAS	40- 40	CC365	♦EMC	43- 49	CD4012E	♦RCA	70- 42
Repl.by 9961-9-3I Cur.			A51F	SIX	98- 77	B906	EBAS	40- 13	CC601	♦CEQ	46- 97	CD4013	♦RCA	38- 31
9962-1-31	FSC	none	A52A	♦SIX	81- 20	B907	EBAS	40- 24	CC701	♦CEQ	47- 10	CD4013D	♦RCA	38- 32
Repl.by 9962-1-3I Cur.			A52F	♦SIX	81- 21	B908	EBAS	40- 41	CC801	♦CEQ	47- 21	CD4013E	♦RCA	38- 30
9963-9-31	FSC	none	A53A	♦SIX	81- 22	B1701	EBAS	46- 91	CD30	♦HIS	95- 40	CD4015	RCA	89- 27
Repl.by 9963-9-3I Cur.			A53F	♦SIX	81- 23	B1711	EBAS	46- 92	CD1414G	♦INI	105- 13	CD4016	♦RCA	111- 42
10101E	SIC	56- 35	A54F	SIX	78- 54	B16701	TSC	72- 12	CD1514B	♦INI	105- 23	CD4016D	♦RCA	111- 43
10102E	SIC	59- 39	A55F	♦SIX	81- 24	B16751	TSC	54- 85	CD1524B	♦INI	105- 24	CD4016E	♦RCA	111- 44
10105E	SIC	56- 36	A60A	♦SIX	81- 25	B46701	TSC	72- 13	CD2100	♦RCA	56- 39	CD4017	RCA	43- 73
10106E	SIC	59- 40	A60F	♦SIX	81- 26	B46751	TSC	54- 86	CD2101	♦RCA	61- 13	CD4017D	♦RCA	43- 64
10107E	SIC	83-100	A3102	FSC	61- 12	B885000	♦APX	44- 64	CD2200	♦RCA	79- 6	CD4017E	♦RCA	43- 65
10109E	SIC	56- 37	A22260	DET	109- 28	B885001	♦APX	44- 62	CD2200D	♦RCA	69- 18	CD4018	RCA	43- 74
10110E	SIC	55- 90	A22266	DET	91- 5	B892000	♦APX	33- 69	CD2201	♦RCA	79- 7	CD4018D	♦RCA	43- 66
10111E	SIC	59- 38	A22271	DET	91- 6	B892001	♦APX	35- 67	CD2201D	♦RCA	69- 19	CD4018E	♦RCA	43- 67
10117E	SIC	56- 1	A22272	DET	91- 7	B892002	♦APX	35- 68	CD2202	♦RCA	79- 8	CD4019	RCA	52- 27
10118E	SIC	56- 2	A22280	DET	109- 29	B892003	♦APX	35- 65	CD2202D	♦RCA	69- 20	CD4019D	♦RCA	52- 23
10130E	SIC	38- 51	A22281	DET	91- 11	B893000	♦APX	49- 13	CD2203	♦RCA	27- 15	CD4019E	♦RCA	52- 24
10131E	SIC	38- 53	A22286	DET	91- 8	B893001	♦APX	49- 14	CD2203D	♦RCA	22- 86	CD4020	RCA	43- 60
22338	DET	91- 4	A22426	DET	109- 30	B893002	♦APX	54- 3	CD2204	♦RCA	84- 32	CD4020D	♦RCA	43- 56
27684-01-2-803		30-102	A22467	DET	91- 9	B893003	♦APX	54- 4	CD2204D	♦RCA	84- 33	CD4020E	♦RCA	43- 57
	CAE		A22541	DET	91- 10	B893004	♦APX	54- 5	CD2205	♦RCA	53- 34	CDL5300N	♦SSS	90- 22
27684-02-2-803		30- 85	AC2M	WLD	91- 75	B893007	♦APX	53-102	CD2205D	♦RCA	53- 61	CDL5300P	♦SSS	90- 23
	CAE		ADC8F	ANA	95- 22	B894002	♦APX	101- 15	CD2300-930	RCA	72- 75	CDL5301N	♦SSS	90- 24
27684-03-2-803		30- 86	ADC8H	♦ANA	95- 75	B894005	♦APX	101- 16	CD2300D930	RCA	72- 76	CDL5301P	♦SSS	90- 25
	CAE		ADC8Q	♦ANA	95- 34	B895000	♦APX	103- 65	CD2300E830	RCA	72- 85	CDL5302N	♦SSS	90- 38
27710-01-2-842		89- 43	ADC8QET	♦ANA	95- 35	B895001	♦APX	93- 76	CD2301-961	RCA	72- 90	CDL5302P	♦SSS	90- 39
	CAE		ADC8T	ANA	95- 23	B895003	♦APX	92- 75	CD2301D961	RCA	72- 91	CDL5303N	♦SSS	90- 40
28135	CAE	46- 1	ADC8U	ANA	95- 24	B895004	♦APX	93- 77	CD2301E861	RCA	72- 97	CDL5303P	♦SSS	90- 41
28138	CAE	46- 2	ADC10F	ANA	95- 25	B/BCD2Z	♦SCI	47- 61	CD2302-946	RCA	72- 77	CDL5305N	♦SSS	90- 26
30007-02-2-801		86- 95	ADC10H	♦ANA	95- 76	BC1	♦CLC	43- 21	CD2302D946	RCA	72- 78	CDL5305P	♦SSS	90- 27
	CAE		ADC10Q	♦ANA	95- 36	BC1A	♦CLC	43- 52	CD2302E846	RCA	72- 86	CDL5306N	♦SSS	90- 28
30007-03-2-801		86- 96	ADC10QET	♦ANA	95- 37	BC2	♦CLC	43- 83	CD2303-949	RCA	72- 92	CDL5306P	♦SSS	90- 29
	CAE		ADC10T	ANA	95- 26	BC10	XDS	53- 31	CD2303D949	RCA	72- 93	CDL5307N	♦SSS	90- 42
30009-01-2-801		86- 97	ADC10U	ANA	95- 27	BC11	XDS	56- 47	CD2303E849	RCA	72- 98	CDL5307P	♦SSS	90- 43
	CAE		ADC12Q	♦ANA	95- 38	BC12	XDS	53- 41	CD2304-945	RCA	32- 32	CDL5308N	♦SSS	90- 44

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK

Obs-In this book

Δ-Registered with JEDEC by this manufacturer

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
CDL5308P	♦SSS	90-45	CT642-2	EEC	54-22	DAC2Z	♦SCI	96-63	DBCO1171YD	SSE	40-49	DBMV1192XBN	SSE	39-93
CG11-1	CAM	39-51	CT643-2	EEC	33-73	DAC8Q	♦ANA	95-87	DBCO1171YDN	SSE	40-72	DBMV1192XC	SSE	39-94
CG21-1	CAM	39-15	CT645-2	EEC	58-67	DAC8QET	♦ANA	95-88	DBCO1171ZA	SSE	40-26	DBMV1192XCN	SSE	39-95
CG333A	EMC	39-18	CT650-2	EEC	49-42	DAC8TB	ANA	95-89	DBCO1171ZAN	SSE	40-73	DBMV1192XD	SSE	39-96
CG333B	EMC	40-98	CT651-2	EEC	54-23	DAC10Q	♦ANA	95-90	DBCO1171ZB	SSE	40-27	DBMV1192XDN	SSE	39-97
CG363A	EMC	39-19	CT654-3	EEC	31-68	DAC10QET	♦ANA	95-91	DBCO1171ZBN	SSE	40-74	DBMV1192YA	SSE	39-81
CG363B	EMC	40-99	CT655A3	EEC	31-62	DAC10TB	ANA	95-92	DBCO1171ZC	SSE	40-28	DBMV1192YAN	SSE	39-82
CH10	XDS	41-16	CT656	EEC	54-96	DAC12Q	♦ANA	95-93	DBCO1171ZCN	SSE	40-75	DBMV1192YB	SSE	39-83
CI20	♦HIS	46-98	CT657-2	EEC	102-104	DAC12QET	♦ANA	95-94	DBCO1171ZD	SSE	40-29	DBMV1192YBN	SSE	39-84
CI21	♦HIS	46-99	CT801A2	EEC	37-76	DAC12TB	ANA	95-95	DBCO1171ZDN	SSE	40-76	DBMV1192YC	SSE	39-85
CJ16	XDS	41-13	CT802-2	EEC	50-17	DAC14R	ANA	95-96	DBFF1005	SSE	27-70	DBMV1192YCN	SSE	39-86
CL01	♦ADC	41-1	CT805-2	EEC	83-44	DAC329BCD	♦HBC	96-43	DBFF1005XA	SSE	28-41	DBMV1192YD	SSE	39-87
CL02	♦ADC	40-7	CTuL952	FSC	56-44	DAC329I	♦HBC	96-44	DBFF1005XAN	SSE	28-42	DBMV1192YDN	SSE	39-88
CL12	XDS	40-103		SGAI		DAC329IBCD	♦HBC	96-45	DBFF1005XB	SSE	28-43	DBMV1192ZA	SSE	39-58
CL801	♦CPR	100-94	CTuL953	FSC	53-58	DAS2126	♦DIC	111-34	DBFF1005XBN	SSE	28-44	DBMV1192ZAN	SSE	39-59
CL802	♦CPR	100-95		SGAI		DAS2126B6	♦DIC	111-37	DBFF1005XC	SSE	28-45	DBMV1192ZB	SSE	39-60
CL805	♦CPR	70-56	CTuL954	FSC	53-59	DAS2128	DIC	111-31	DBFF1005XCN	SSE	28-46	DBMV1192ZBN	SSE	39-61
CL806	♦CPR	70-57		SGAI		DAS2132	♦DIC	111-35	DBFF1005XD	SSE	28-47	DBMV1192ZC	SSE	39-62
CL809	♦CPR	70-58	CTuL955	FSC	53-50	DAS2132B6	♦DIC	111-38	DBFF1005XDN	♦SSE	28-48	DBMV1192ZCN	SSE	39-63
CL810	♦CPR	70-59		SGAI		DAS2133B6	♦DIC	111-39	DBFF1005YA	SSE	28-16	DBMV1192ZD	SSE	39-64
CL813	♦CPR	70-60	CTuL956	FSC	51-100	DAS2136	CRY	111-36	DBFF1005YAN	SSE	28-17	DBMV1192ZDN	SSE	39-65
CL814	♦CPR	70-61		SGAI			♦DIC		DBFF1005YB	SSE	28-18	DBOS1193	SSE	93-73
CL817	♦CPR	70-62	CTuL957	FSC	25-51	DAS2136B6	♦DIC	111-40	DBFF1005YBN	SSE	28-19	DBOS1193XA	SSE	93-110
CL821	♦CPR	86-91		SGAI		DAS2137B6	♦DIC	111-41	DBFF1005YC	SSE	28-20	DBOS1193XAN	SSE	94-1
CL825	♦CPR	70-63	CTuL964	FSC	48-2	DBAO1031	SSE	52-28	DBFF1005YCN	SSE	28-21	DBOS1193XB	SSE	94-2
CL837	♦CPR	24-17	CTuL965	FSC	48-3	DBAO1031XA	SSE	51-15	DBFF1005YD	SSE	28-22	DBOS1193XBN	SSE	94-3
CL838	♦CPR	24-19		SGAI		DBAO1031XAN	SSE	51-16	DBFF1005YDN	SSE	28-23	DBOS1193XC	SSE	94-4
CL841	♦CPR	24-18	CTuL967	FSC	25-95	DBAO1031XB	SSE	51-17	DBFF1005ZA	SSE	27-80	DBOS1193XCN	SSE	94-5
CL842	♦CPR	24-20		SGAI		DBAO1031XBN	SSE	51-18	DBFF1005ZAN	SSE	27-81	DBOS1193XD	SSE	94-6
CL845	♦CPR	27-26	CTuL968	FSC	110-18	DBAO1031XC	SSE	51-19	DBFF1005ZB	SSE	27-82	DBOS1193XDN	SSE	94-7
CL846	♦CPR	27-27		SGAI		DBAO1031XCN	SSE	51-20	DBFF1005ZBN	SSE	27-83	DBOS1193YA	SSE	93-97
CM7283	WAL	43-27	CTuL970	FSC	110-4	DBAO1031XD	SSE	51-21	DBFF1005ZC	SSE	27-84	DBOS1193YAN	SSE	93-98
CM7653	WAL	21-5		SGAI		DBAO1031XDN	SSE	51-22	DBFF1005ZCN	SSE	27-85	DBOS1193YB	SSE	93-99
CM8603	WAL	43-7	CTuL997279	FSC	55-91	DBAO1031YA	SSE	50-72	DBFF1005ZD	SSE	27-86	DBOS1193YBN	SSE	93-100
CM8623	WAL	21-2	CuL958	FSC	42-31	DBAO1031YAN	SSE	50-73	DBFF1005ZDN	SSE	27-87	DBOS1193YC	SSE	93-101
CM8663	WAL	92-63		SGAI		DBAO1031YB	SSE	50-74	DBFF1016	SSE	35-63	DBOS1193YCN	SSE	93-102
CM10133	WAL	43-61	CX13	XDS	41-3	DBAO1031YBN	SSE	50-75	DBFF1016XA	SSE	36-16	DBOS1193YD	SSE	93-103
CM10243	WAL	43-75	CX14	XDS	41-4	DBAO1031YC	SSE	50-76	DBFF1016XAN	SSE	36-17	DBOS1193YDN	SSE	93-104
CM86031	WAL	43-22	CX18	XDS	41-9	DBAO1031YCN	SSE	50-77	DBFF1016XB	SSE	36-18	DBOS1193ZA	SSE	93-82
CMDA1	CRY	95-83	D003-1	HSE	101-42	DBAO1031YD	SSE	50-78	DBFF1016XBN	SSE	36-19	DBOS1193ZAN	SSE	93-83
CMDA1A	CRY	95-84	D003-2	HSE	101-43	DBAO1031YDN	SSE	50-79	DBFF1016XC	SSE	36-20	DBOS1193ZB	SSE	93-84
CO1	ROA	40-87	D003-3	HSE	101-44	DBAO1031ZA	SSE	49-90	DBFF1016XCN	SSE	36-21	DBOS1193ZBN	SSE	93-85
CO409	TRC	40-88	D003-4	HSE	101-45	DBAO1031ZAN	SSE	49-91	DBFF1016XD	SSE	36-22	DBOS1193ZC	SSE	93-86
CO5509	♦TRC	40-58	D003-5	HSE	101-46	DBAO1031ZB	SSE	49-92	DBFF1016XDN	SSE	36-23	DBOS1193ZCN	SSE	93-87
CP20	♦HIS	46-100	D108F	♦SIX	96-76	DBAO1031ZBN	SSE	49-93	DBFF1016YA	SSE	35-107	DBOS1193ZD	SSE	93-88
CP21	♦HIS	46-101	D111F	♦SIX	112-89	DBAO1031ZC	SSE	49-94	DBFF1016YAN	SSE	35-108	DBOS1193ZDN	SSE	93-89
CS700G	♦SIC	79-99	D113F	♦SIX	112-90	DBAO1031ZCN	SSE	49-95	DBFF1016YB	SSE	35-109	DBSG1033	SSE	87-68
CS700K	♦SIC	79-100	D119F	♦SIX	112-91	DBAO1031ZD	SSE	49-96	DBFF1016YBN	SSE	35-110	DBSG1033XA	SSE	87-45
CS701G	♦SIC	79-101	D120F	♦SIX	112-92	DBAO1031ZDN	SSE	49-97	DBFF1016YC	SSE	36-1	DBSG1033XAN	SSE	87-46
CS701K	♦SIC	79-102	D121F	♦SIX	112-93	DBAO1032	SSE	52-29	DBFF1016YCN	SSE	36-2	DBSG1033XB	SSE	87-47
CS704G	♦SIC	34-70	D123F	♦SIX	112-74	DBAO1032XA	SSE	51-23	DBFF1016YD	SSE	36-3	DBSG1033XBN	SSE	87-48
CS704K	♦SIC	34-71	D124F	SIX	107-22	DBAO1032XAN	SSE	51-24	DBFF1016YDN	SSE	36-4	DBSG1033XC	SSE	87-49
CS705G	♦SIC	84-37	D125F	♦SIX	112-75	DBAO1032XB	SSE	51-25	DBFF1016ZA	SSE	35-81	DBSG1033XCN	SSE	87-50
CS705K	♦SIC	84-38	D129L	♦SIX	112-76	DBAO1032XBN	SSE	51-26	DBFF1016ZAN	SSE	35-82	DBSG1033XD	SSE	87-51
CS709G	♦SIC	84-39	D130L	♦SIX	112-94	DBAO1032XC	SSE	51-27	DBFF1016ZB	SSE	35-83	DBSG1033XDN	SSE	87-52
CS709K	♦SIC	84-40	D131	♦SIX	112-95	DBAO1032XCN	SSE	51-28	DBFF1016ZBN	SSE	35-84	DBSG1033YA	SSE	87-18
CS715K	♦SIC	69-59	D132L	♦SIX	106-84	DBAO1032XD	SSE	51-29	DBFF1016ZC	SSE	35-85	DBSG1033YAN	SSE	87-19
CS716K	♦SIC	79-103	D930-1R	ELLB	68-13	DBAO1032XDN	SSE	51-30	DBFF1016ZCN	SSE	35-86	DBSG1033YB	SSE	87-20
CS720J	♦SIC	78-98	D930-1U	ELLB	68-14	DBAO1032YA	SSE	50-80	DBFF1016ZD	SSE	35-87	DBSG1033YBN	SSE	87-21
CS721J	♦SIC	78-99	D930-9R	ELLB	68-28	DBAO1032YAN	SSE	50-81	DBFF1016ZDN	SSE	35-88	DBSG1033YC	SSE	87-22
CS727J	♦SIC	78-100	D930-9U	ELLB	68-29	DBAO1032YB	SSE	50-82	DBFF1026	SSE	37-68	DBSG1033YCN	SSE	87-23
CS729J	♦SIC	34-68	D932-1R	ELLB	68-15	DBAO1032YBN	SSE	50-83	DBFF1026XA	SSE	28-49	DBSG1033YD	SSE	87-24
CS730J	♦SIC	78-101	D932-1U	ELLB	68-16	DBAO1032YC	SSE	50-84	DBFF1026XAN	SSE	27-88	DBSG1033YDN	SSE	87-25
CS731J	♦SIC	84-41	D932-9R	ELLB	68-30	DBAO1032YCN	SSE	50-85	DBFF1026XB	SSE	28-50	DBSG1033ZA	SSE	86-106
CS732J	♦SIC	84-42	D932-9U	ELLB	68-31	DBAO1032YD	SSE	50-86	DBFF1026XBN	SSE	27-89	DBSG1033ZAN	SSE	87-1
CT10	XDS	41-14	D933-1R	ELLB	84-43	DBAO1032YDN	SSE	50-87	DBFF1026XC	SSE	28-51	DBSG1033ZB	SSE	87-2
CT16	XDS	41-12	D933-1U	ELLB	84-44	DBAO1032ZA	SSE	49-98	DBFF1026XCN	SSE	27-90	DBSG1033ZBN	SSE	87-3
CT101B3	EEC	33-71	D933-9R	ELLB	84-45	DBAO1032ZAN	SSE	49-99	DBFF1026XD	SSE	28-52	DBSG1033ZC	SSE	87-4
CT102A4	EEC	37-89	D933-9U	ELLB	84-46	DBAO1032ZB	SSE	49-100	DBFF1026XDN	SSE	27-91	DBSG1033ZCN	SSE	87-5
CT104-2	EEC	39-36	D944-1R	ELLB	68-17	DBAO1032ZBN	SSE	49-101	DBFF1026YA	SSE	28-24	DBSG1033ZD	SSE	87-6
CT106-4	EEC	103-79	D944-1U	ELLB	68-18	DBAO1032ZC	SSE	49-102	DBFF1026YAN	SSE	27-92	DBSG1033ZDN	SSE	87-7
CT109-4	EEC	109-15	D944-9R	ELLB	68-32	DBAO1032ZCN	SSE	49-103	DBFF1026YB	SSE	28-25	DBST1071	SSE	103-66
CT120-4	EEC	105-102	D944-9U	ELLB	68-33	DBAO1032ZD	SSE	49-104	DBFF1026YBN	SSE	27-93	DBST1071XA	SSE	104-48
CT121-4	EEC	105-103	D945-1R	ELLB	31-56	DBAO1032ZDN	SSE	49-105	DBFF1026YC	SSE	28-26	DBST1071XAN	SSE	104-49
CT127-1	EEC	95-21	D945-1U	ELLB	31-57	DBAO1034	SSE	52-30	DBFF1026YCN	SSE	27-94	DBST1071XB	SSE	104-50
CT129-4	EEC	108-59	D945-9R	ELLB	31-59	DBAO1034XA	SSE	51-31	DBFF1026YD	SSE	28-27	DBST1071XBN	SSE	104-51
CT130-3	EEC	105-104	D945-9U	ELLB	31-60	DBAO1034XAN	SSE	51-32	DBFF1026YDN	SSE	27-95	DBST1071XC	SSE	104-52
CT134-4	EEC	106-19	D946-1R	ELLB	68-19	DBAO1034XB	SSE	51-33	DBFF1026ZA	SSE	27-96	DBST1071XCN	SSE	104-53
CT135-4	EEC	106-20	D946-1U	ELLB	68-20	DBAO1034XBN	SSE	51-34	DBFF1026ZAN	SSE	27-97	DBST1071XD	SSE	104-54
CT136-4	EEC	101-25	D946-9R	ELLB	68-34	DBAO1034XC	SSE	51-35	DBFF1026ZB	SSE	27-98	DBST1071XDN	SSE	104-55
CT139-4	EEC	105-105	D946-9U	ELLB	68-35	DBAO1034XCN	SSE	51-36	DBFF1026ZBN	SSE	27-99	DBST1071YA	SSE	104-21
CT162-4	EEC	31-6	D948-1R	ELLB	31-74	DBAO1034XD	SSE	51-37	DBFF1026ZC	SSE	27-100	DBST1071YAN	SSE	104-22
CT166-4	EEC	91-77	D948-1U	ELLB	31-75	DBAO1034XDN	SSE	51-38	DBFF1026ZCN	SSE	27-101	DBST1071YB	SSE	104-23
CT170-4	EEC	106-21	D948-9R	ELLB	31-77	DBAO1034YA	SSE	50-88	DBFF1026ZD	SSE	27-102	DBST1071YBN	SSE	104-24
CT171-4	EEC	106-22	D948-9U	ELLB	31-78	DBAO1034YAN	SSE	50-89	DBFF1026ZDN	SSE	27-103	DBST1071YC	SSE	104-25
CT174-4	EEC	109-16	D950-1R	ELLB	34-84	DBAO1034YB	SSE	50-90	DBIA1112	SSE	100-96	DBST1071YCN	SSE	104-26
CT301A3	EEC	37-75	D950-1U	ELLB	34-85	DBAO1034YBN	SSE	50-91	DBIA1112XA	SSE	102-16	DBST1071YD	SSE	104-27
CT303-2	EEC	37-94	D950-9R	ELLB	34-87	DBAO1034YC	SSE	50-92	DBIA1112XAN	♦SSE	102-17	DBST1071YDN	SSE	104-28
CT304-4	EEC	101-71	D950-9U	ELLB	34-88	DBAO1034YCN	SSE	50-93	DBIA1112XB	SSE	102-18	DBST1071ZA	SSE	103-82
CT306-1	EEC	104-37	D951-1R	ELLB	92-11	DBAO1034YD	SSE	50-94	DBIA1112XBN	SSE	102-19	DBST1071ZAN	♦SSE	103-83
CT306-2	EEC	104-38	D951-1U	ELLB	92-12	DBAO1034YDN	SSE	50-95	DBIA1112XC	SSE	102-20	DBST1071ZB	SSE	103-84
CT308-3	EEC	58-87	D951-9R	ELLB	92-20	DBAO1034ZA	SSE	49-106	DBIA1112XCN	SSE	102-21	DBST1071ZBN	SSE	103-85
CT312-2	EEC	103-106	D951-9U	ELLB	92-21	DBAO1034ZAN	SSE	49-107	DBIA1112XD	SSE	102-22	DBST1071ZC	SSE	103-86
CT410A3	EEC	49-34	D962-1R	ELLB	68-21	DBAO1034ZB	SSE	49-108	DBIA1112XDN	SSE	102-23	DBST1071ZCN	SSE	103-87
CT411-3	EEC	49-35	D962-1U	♦ELLB	68-22	DBAO1034ZBN	SSE	49-109	DBIA1112YA	SSE	101-105	DBST1071ZD	SSE	103-88
CT413-3	EEC	49-36	D962-9R	ELLB	68-36	DBAO1034ZC	SSE	49-110	DBIA1112YAN	SSE	101-106	DBST1071ZDN	SSE	103-89
CT421A4	EEC	83-37	D962-9U	ELLB	68-37	DBAO1034ZCN	SSE	50-1	DBIA1112YB	♦SSE	101-107	DC01CAN3	♦CLI	48-101
CT422-4	EEC	83-38	D4043	EEC	46-57	DBAO1034ZD	SSE	50-2	DBIA1112YBN	SSE	101-108	DC01CAN8	♦CLI	48-102
CT423A3	EEC	83-39	D4076	EEC	96-54	DBAO1034ZDN	SSE	50-3	DBIA1112YC	SSE	101-109	DC01CCTR2	♦CLI	42-108
CT430-4	EEC	54-20	D4077	EEC	96-55	DBCO1171	SSE	40-10	DBIA1112YCN	♦SSE	101-110	DC01CDD1	♦CLI	45-22
CT434-3	EEC	49-37	D4078	EEC	95-50	DBCO1171XA	SSE	40-61	DBIA1112YD	♦SSE	102-1	DC01CFF1	♦CLI	30-92
CT437-3	EEC	58-66	D4080	EEC	95-49	DBCO1171XAN	SSE	40-62	DBIA1112YDN	SSE	102-2	DC01CFF4	♦CLI	37-15
CT438-3	EEC	70-103	D4081	EEC	110-25	DBCO1171XB	SSE	40-63	DBIA1112ZA	SSE	101-47	DC01CIG1	♦CLI	100-104
CT439-4	EEC	49-38	D16701	TSC	37-44	DBCO1171XBN	SSE	40-64	DBIA1112ZAN	SSE	101-48	DC01CIV1	♦CLI	100-105
CT441-2	EEC	97-91	D46701	TSC	37-45	DBCO1171XC	SSE	40-65	DBIA1112ZB	SSE	101-49	DC01CNG2	♦CLI	70-68
CT448-2	EEC	49-39	DA3	CLC	96-66	DBCO1171XCN	SSE	40-66	DBIA1112ZBN	SSE	101-50	DC01CPS1	♦CLI	92-57
CT601-2	EEC	49-40	DA4	CLC	96-84	DBCO1171XD	SSE	40-67	DBIA1112ZC	SSE	101-51	DC01CSAN3	♦CLI	48-97
CT602-2	EEC	54-21	DA5	CLC	96-67	DBCO1171XDN	SSE	40-68	DBIA1112ZCN	SSE	101-52	DC01CSAN8	♦CLI	48-98
CT605-3	EEC	89-14	DA6	CLC	96-68	DBCO1171YA	SSE	40-46	DBIA1112ZD	SSE	101-53	DC01CSCTR2	♦CLI	42-110
CT606-2	EEC	89-79	DA14	VDM	95-85	DBCO1171YAN	SSE	40-69	DBIA1112ZDN	SSE	101-54	DC01CSDD1	♦CLI	45-24
CT610-3	EEC	89-50	DA18	VDM	95-86	DBCO1171YB	SSE	40-47	DBMV1192	SSE	39-44	DC01CSFF1	♦CLI	30-90
CT628-2	EEC	46-87	DA101	♦CEQ	96-26	DBCO1171YBN	SSE	40-70	DBMV1192XA	SSE	39-90	DC01CSFF4	♦CLI	37-13
CT633-2	EEC	33-72	DA102	♦CEQ	96-27	DBCO1171YC	SSE	40-48	DBMV1192XAN	SSE	39-91	DC01CSIG1	♦CLI	100-106
CT641-2	EEC	49-41	DA436	GESY	107-23	DBCO1171YCN	SSE	40-71	DBMV1192XB	SSE	39-92	DC01CSIV1	♦CLI	100-107

♦-Copy of mfr's data sheet
may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
Δ-Registered with JEDEC by this manufacturer

Obs-In this book

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
DC01CSNG2	♦CLI	70 - 66
DC01CSPS1	♦CLI	92 - 59
DC01CSXAN3	♦CLI	48 - 99
DC01CSXAN8	♦CLI	48 - 100
DC01CSXCTR2	♦CLI	43 - 1
DC01CSXDD1	♦CLI	45 - 25
DC01CSXFF1	♦CLI	30 - 91
DC01CSXFF4	♦CLI	37 - 14
DC01CSXIG1	♦CLI	100 - 108
DC01CSXIV1	♦CLI	100 - 109
DC01CSXNG2	♦CLI	70 - 67
DC01CSXPS1	♦CLI	92 - 60
DC01CXAN3	♦CLI	48 - 103
DC01CXAN8	♦CLI	48 - 104
DC01CXCTR2	♦CLI	42 - 109
DC01CXDD1	♦CLI	45 - 23
DC01CXFF1	♦CLI	30 - 93
DC01CXFF4	♦CLI	37 - 16
DC01CXIG1	♦CLI	100 - 110
DC01CXIV1	♦CLI	101 - 1
DC01CXNG2	♦CLI	70 - 69
DC01CXPS1	♦CLI	92 - 58
DC01MAN3	♦CLI	48 - 108
DC01MAN8	♦CLI	48 - 105
DC01MCM1	♦CLI	39 - 46
DC01MDM1	♦CLI	92 - 61
DC01MFF1	♦CLI	30 - 97
DC01MFF1M	♦CLI	31 - 27
DC01MFF3	♦CLI	32 - 43
DC01MFF4	♦CLI	30 - 98
DC01MIG1	♦CLI	101 - 2
DC01MIV1	♦CLI	101 - 3
DC01MNG2	♦CLI	70 - 71
DC01MSAN3	♦CLI	48 - 106
DC01MSAN8	♦CLI	48 - 107
DC01MSCM1	♦CLI	39 - 47
DC01MSDM1	♦CLI	92 - 62
DC01MSFF1	♦CLI	30 - 94
DC01MSFF1M	♦CLI	31 - 26
DC01MSFF3	♦CLI	30 - 95
DC01MSFF4	♦CLI	30 - 96
DC01MSIV1	♦CLI	101 - 4
DC01MSNG2	♦CLI	70 - 70
DC1	CLC	44 - 74
DC1A	CLC	44 - 85
DC1CAN3	♦CLI	48 - 110
DC1CAN8	♦CLI	49 - 1
DC1CBDC1	♦CLI	46 - 10
DC1CBOC1	♦CLI	46 - 19
DC1CCG1	♦CLI	40 - 108
DC1CCM1	♦CLI	40 - 1
DC1CCTR2	♦CLI	43 - 3
DC1CDD1	♦CLI	45 - 21
DC1CDM1	♦CLI	93 - 57
DC1CDOU1	CLI	109 - 4
DC1CFF1	♦CLI	30 - 104
DC1CFF3	♦CLI	37 - 17
DC1CFF4	♦CLI	37 - 18
DC1CIG1	♦CLI	101 - 8
DC1CIV1	♦CLI	101 - 9
DC1CNG2	♦CLI	70 - 79
DC1CNG4	♦CLI	70 - 80
DC1COG3	♦CLI	53 - 107
DC1COG5	♦CLI	53 - 108
DC1CPS1	♦CLI	92 - 65
DC1CSN4	♦CLI	49 - 2
DC1MAN3	♦CLI	49 - 8
DC1MAN8	♦CLI	49 - 9
DC1MCM1	♦CLI	39 - 48
DC1MDM1	♦CLI	92 - 72
DC1MFF1	♦CLI	30 - 107
DC1MFF3	♦CLI	31 - 1
DC1MFF4	♦CLI	31 - 2
DC1MFF5	♦CLI	32 - 45
DC1MFT2	♦CLI	109 - 5
DC1MIG1	CLI	101 - 13
DC1MIV1	♦CLI	101 - 14
DC1MLD1	♦CLI	105 - 1
DC1MLD1G	♦CLI	46 - 11
DC1MLD2	♦CLI	105 - 2
DC1MLD2G	♦CLI	46 - 12
DC1MNG2	♦CLI	70 - 89
DC1MNG4	♦CLI	70 - 90
DC1MOG3	♦CLI	54 - 1
DC1MOG5	♦CLI	54 - 2
DC1MOS1	♦CLI	40 - 17
DC1MRD2	CLI	105 - 3
DC1MSN4	♦CLI	49 - 10
DC1MVC6G	♦CLI	46 - 13
DC2	CLC	44 - 90
DC2CAN3	♦CLI	50 - 47
DC2CAN8	♦CLI	50 - 48
DC2CCG1	♦CLI	40 - 109
DC2CCM1	♦CLI	40 - 2
DC2CCTR2	♦CLI	43 - 50
DC2CDD1	♦CLI	45 - 26
DC2CDM1	♦CLI	93 - 58
DC2CFF1	♦CLI	31 - 39
DC2CFF3	♦CLI	37 - 32
DC2CFF4	♦CLI	37 - 33
DC2CIG1	♦CLI	101 - 91
DC2CIV1	♦CLI	101 - 92
DC2CNG2	♦CLI	71 - 99
DC2CNG4	♦CLI	71 - 100
DC2COG3	♦CLI	54 - 68
DC2COG5	♦CLI	54 - 69
DC2CPS1	♦CLI	92 - 108
DC2CSAN3	♦CLI	50 - 44
DC2CSAN8	♦CLI	50 - 45
DC2CSCG1	♦CLI	40 - 110
DC2CSCM1	♦CLI	40 - 3
DC2CSCTR2	♦CLI	43 - 53
DC2CSDD1	♦CLI	45 - 27
DC2CSDM1	♦CLI	93 - 59
DC2CSFF1	♦CLI	31 - 38
DC2CSFF3	♦CLI	37 - 30
DC2CSFF4	♦CLI	37 - 31
DC2CSIG1	♦CLI	101 - 93
DC2CSIV1	♦CLI	101 - 94
DC2CSN4	♦CLI	50 - 49
DC2CSNG2	♦CLI	71 - 97
DC2CSNG4	♦CLI	71 - 98
DC2CSOG3	♦CLI	54 - 66
DC2CSOG5	♦CLI	54 - 67
DC2CSPS1	♦CLI	93 - 3
DC2CSSN4	♦CLI	50 - 46
DC2MAN3	♦CLI	50 - 54
DC2MAN8	♦CLI	50 - 55
DC2MCM1	♦CLI	39 - 79
DC2MDM1	♦CLI	93 - 4
DC2MFF1	♦CLI	31 - 45
DC2MFF3	♦CLI	31 - 46
DC2MFF4	♦CLI	31 - 47
DC2MFF5	♦CLI	32 - 55
DC2MFT2	♦CLI	109 - 75
DC2MIG1	CLI	101 - 96
DC2MIV1	♦CLI	101 - 97
DC2MLD2	♦CLI	105 - 15
DC2MNG2	♦CLI	71 - 108
DC2MNG4	♦CLI	71 - 109
DC2MOG3	♦CLI	54 - 72
DC2MOG5	♦CLI	54 - 73
DC2MOS1	♦CLI	40 - 43
DC2MSAN3	♦CLI	50 - 51
DC2MSAN8	♦CLI	50 - 52
DC2MSCM1	♦CLI	39 - 80
DC2MSDM1	♦CLI	93 - 5
DC2MSFF1	♦CLI	31 - 42
DC2MSFF3	♦CLI	31 - 43
DC2MSFF4	♦CLI	31 - 44
DC2MSFF5	♦CLI	32 - 56
DC2MSFT2	♦CLI	109 - 76
DC2MSIV1	♦CLI	101 - 98
DC2MSLD2	♦CLI	105 - 16
DC2MSN4	♦CLI	50 - 56
DC2MSNG2	♦CLI	71 - 106
DC2MSNG4	♦CLI	71 - 107
DC2MSOG3	♦CLI	54 - 70
DC2MSOG5	♦CLI	54 - 71
DC2MSOS1	♦CLI	40 - 44
DC2MSSN4	♦CLI	50 - 53
DC10CAN3	♦CLI	51 - 52
DC10CAN8	♦CLI	51 - 53
DC10CCTR2	♦CLI	43 - 103
DC10CDD1	♦CLI	45 - 28
DC10CFF1	♦CLI	31 - 94
DC10CFF3	♦CLI	37 - 60
DC10CFF4	♦CLI	37 - 61
DC10CIG1	♦CLI	102 - 41
DC10CNG2	♦CLI	73 - 80
DC10CNG4	♦CLI	73 - 81
DC10CPS1	♦CLI	93 - 48
DC10CSN4	♦CLI	51 - 54
DC10MAN3	♦CLI	51 - 68
DC10MAN8	♦CLI	51 - 69
DC10MCM1	♦CLI	39 - 108
DC10MDM1	♦CLI	93 - 50
DC10MFF1	♦CLI	31 - 97
DC10MFF3	♦CLI	31 - 98
DC10MFF4	♦CLI	31 - 99
DC10MFF5	♦CLI	32 - 63
DC10MFF10	♦CLI	31 - 100
DC10MFT2	♦CLI	110 - 29
DC10MIG1	CLI	102 - 47
DC10MNG2	♦CLI	73 - 87
DC10MNG4	♦CLI	73 - 88
DC10MSN4	♦CLI	51 - 70
DC20	♦HIS	75 - 22
DC21	CLC	44 - 63
DC30	♦HIS	75 - 31
DC31	♦CLC	44 - 92
DC35	♦HIS	75 - 37
DC50CSAN3	♦CLI	51 - 106
DC50CSAN8	♦CLI	51 - 107
DC50CSCTR2	♦CLI	44 - 26
DC50CSDD1	♦CLI	45 - 29
DC50CSFF1	♦CLI	32 - 25
DC50CSFF3	♦CLI	37 - 62
DC50CSFF4	♦CLI	37 - 63
DC50CSG1	♦CLI	41 - 2
DC50CSIG1	♦CLI	102 - 67
DC50CSNG2	♦CLI	74 - 81
DC50CSNG4	♦CLI	74 - 82
DC50CSPS1	♦CLI	93 - 55
DC50CSSN4	♦CLI	51 - 108
DC50MSAN3	♦CLI	51 - 109
DC50MSAN8	♦CLI	51 - 110
DC50MSCM1	♦CLI	39 - 110
DC50MSDM1	♦CLI	93 - 56
DC50MSFF1	♦CLI	32 - 26
DC50MSFF3	♦CLI	32 - 71
DC50MSFF4	♦CLI	32 - 27
DC50MSFF5	♦CLI	32 - 72
DC50MSFT2	♦CLI	110 - 93
DC50MSNG2	♦CLI	74 - 83
DC50MSNG4	♦CLI	74 - 84
DC50MSOS1	♦CLI	40 - 90
DC50MSSN4	♦CLI	52 - 1
DC130	HIS	75 - 28
DC335	♦HIS	72 - 26
DC336	♦EMC	44 - 84
DC340	HIS	73 - 56
DC356	♦EMC	44 - 72
DC366	♦EMC	44 - 86
DC804	♦EMC	42 - 45
DC810	EMC	42 - 46
DC910	EMC	42 - 55
DC5402	♦TRC	42 - 47
DC5403	TRC	42 - 48
DCAO1031	SSE	52 - 31
DCAO1031XA	SSE	51 - 39
DCAO1031XB	SSE	51 - 40
DCAO1031XC	SSE	51 - 41
DCAO1031XD	SSE	51 - 42
DCAO1031YA	SSE	50 - 96
DCAO1031YB	SSE	50 - 97
DCAO1031YC	SSE	50 - 98
DCAO1031YD	SSE	50 - 99
DCAO1031ZA	SSE	50 - 4
DCAO1031ZB	SSE	50 - 5
DCAO1031ZC	SSE	50 - 6
DCAO1031ZD	SSE	50 - 7
DCAO1032	SSE	52 - 32
DCAO1032XA	SSE	51 - 43
DCAO1032XB	SSE	51 - 44
DCAO1032XC	SSE	51 - 45
DCAO1032XD	SSE	51 - 46
DCAO1032YA	SSE	50 - 100
DCAO1032YB	SSE	50 - 101
DCAO1032YC	SSE	50 - 102
DCAO1032YD	SSE	50 - 103
DCAO1032ZA	SSE	50 - 8
DCAO1032ZB	SSE	50 - 9
DCAO1032ZC	SSE	50 - 10
DCAO1032ZD	SSE	50 - 11
DCAO1034	SSE	52 - 33
DCAO1034XA	SSE	51 - 47
DCAO1034XB	SSE	51 - 48
DCAO1034XC	SSE	51 - 49
DCAO1034XD	SSE	51 - 50
DCAO1034YA	SSE	50 - 104
DCAO1034YB	SSE	50 - 105
DCAO1034YC	SSE	50 - 106
DCAO1034YD	SSE	50 - 107
DCAO1034ZA	SSE	50 - 12
DCAO1034ZB	SSE	50 - 13
DCAO1034ZC	SSE	50 - 14
DCAO1034ZD	SSE	50 - 15
DCCO1171	SSE	40 - 11
DCCO1171XA	SSE	40 - 77
DCCO1171XB	SSE	40 - 78
DCCO1171XC	SSE	40 - 79
DCCO1171XD	SSE	40 - 80
DCCO1171YA	SSE	40 - 50
DCCO1171YB	SSE	40 - 51
DCCO1171YC	SSE	40 - 52
DCCO1171YD	SSE	40 - 53
DCCO1171ZA	SSE	40 - 30
DCCO1171ZB	SSE	40 - 31
DCCO1171ZC	SSE	40 - 32
DCCO1171ZD	SSE	40 - 33
DCFF1005	SSE	27 - 71
DCFF1005XA	SSE	28 - 53
DCFF1005XB	SSE	28 - 54
DCFF1005XC	SSE	28 - 55
DCFF1005XD	SSE	28 - 56
DCFF1005YA	SSE	28 - 28
DCFF1005YB	SSE	28 - 29
DCFF1005YC	SSE	28 - 30
DCFF1005YD	SSE	28 - 31
DCFF1005ZA	SSE	27 - 104
DCFF1005ZB	SSE	27 - 105
DCFF1005ZC	SSE	27 - 106
DCFF1005ZD	SSE	27 - 107
DCFF1016	SSE	35 - 64
DCFF1016XA	SSE	36 - 24
DCFF1016XB	SSE	36 - 25
DCFF1016XC	SSE	36 - 26
DCFF1016XD	SSE	36 - 27
DCFF1016YA	SSE	36 - 5
DCFF1016YB	SSE	36 - 6
DCFF1016YC	SSE	36 - 7
DCFF1016YD	SSE	36 - 8
DCFF1016ZA	SSE	35 - 89
DCFF1016ZB	SSE	35 - 90
DCFF1016ZC	SSE	35 - 91
DCFF1016ZD	SSE	35 - 92
DCFF1026	SSE	37 - 69
DCFF1026XA	SSE	28 - 57
DCFF1026XB	SSE	28 - 58
DCFF1026XC	SSE	28 - 59
DCFF1026XD	SSE	28 - 60
DCFF1026YA	SSE	28 - 32
DCFF1026YB	♦SSE	28 - 33
DCFF1026YC	SSE	28 - 34
DCFF1026YD	SSE	28 - 35
DCFF1026ZA	SSE	27 - 108
DCFF1026ZB	SSE	27 - 109
DCFF1026ZC	SSE	27 - 110
DCFF1026ZD	SSE	28 - 1
DCIA1112	SSE	100 - 97
DCIA1112XA	SSE	102 - 24
DCIA1112XB	SSE	102 - 25
DCIA1112XC	♦SSE	102 - 26
DCIA1112XD	SSE	102 - 27
DCIA1112YA	SSE	102 - 3
DCIA1112YB	SSE	102 - 4
DCIA1112YC	SSE	102 - 5
DCIA1112YD	SSE	102 - 6
DCIA1112ZA	SSE	101 - 55
DCIA1112ZB	SSE	101 - 56
DCIA1112ZC	SSE	101 - 57
DCIA1112ZD	SSE	101 - 58
DCMV1192	SSE	39 - 45
DCMV1192XA	SSE	39 - 98
DCMV1192XB	SSE	39 - 99
DCMV1192XC	SSE	39 - 100
DCMV1192XD	SSE	39 - 101
DCMV1192YA	SSE	39 - 102
DCMV1192YB	SSE	39 - 103
DCMV1192YC	SSE	39 - 104
DCMV1192YD	SSE	39 - 105
DCMV1192ZA	SSE	39 - 66
DCMV1192ZB	SSE	39 - 67
DCMV1192ZC	SSE	39 - 68
DCMV1192ZD	SSE	39 - 69
DCOS1193	SSE	93 - 74
DCOS1193XA	SSE	94 - 8
DCOS1193XB	SSE	94 - 9
DCOS1193XC	SSE	94 - 10
DCOS1193XD	SSE	94 - 11
DCOS1193YA	SSE	93 - 105
DCOS1193YB	SSE	93 - 106
DCOS1193YC	SSE	93 - 107
DCOS1193YD	SSE	93 - 108
DCOS1193ZA	SSE	93 - 90
DCOS1193ZB	SSE	93 - 91
DCOS1193ZC	SSE	93 - 92
DCOS1193ZD	SSE	93 - 93
DCSG1033	SSE	87 - 69
DCSG1033XA	SSE	87 - 53
DCSG1033XB	SSE	87 - 54
DCSG1033XC	SSE	87 - 55
DCSG1033XD	SSE	87 - 56
DCSG1033YA	SSE	87 - 26
DCSG1033YB	SSE	87 - 27
DCSG1033YC	SSE	87 - 28
DCSG1033YD	SSE	87 - 29
DCSG1033ZA	SSE	87 - 8
DCSG1033ZB	SSE	87 - 9
DCSG1033ZC	SSE	87 - 10
DCSG1033ZD	SSE	87 - 11
DCST1071	SSE	103 - 63
DCST1071XA	SSE	104 - 56
DCST1071XB	SSE	104 - 57
DCST1071XC	SSE	104 - 58
DCST1071XD	SSE	104 - 59
DCST1071YA	SSE	104 - 29
DCST1071YB	SSE	104 - 30
DCST1071YC	SSE	104 - 31
DCST1071YD	SSE	104 - 32
DCST1071ZA	SSE	103 - 90
DCST1071ZB	SSE	103 - 91
DCST1071ZC	SSE	103 - 92
DCST1071ZD	SSE	103 - 93
DD1	CLC	46 - 93
DD12	♦VDM	92 - 79
DD22	♦VDM	93 - 1
DD31⍁	♦CLC	46 - 94
DD31#	♦HIS	105 - 21
DD200	RTN	105 - 30
DD330	♦HIS	47 - 24
DD334	EMC	47 - 22
DD805	♦EMC	47 - 25
DD905	EMC	47 - 28
DD5412	TRC	47 - 26
DDC369	EMC	42 - 37
DE335	♦HIS	87 - 36
DF20	♦HIS	75 - 23
DF30	♦HIS	75 - 32
DF35	♦HIS	75 - 38
DF130	HIS	75 - 29
DF320	HIS	71 - 69
DG110F	♦SIX	112 - 77
DG110L	♦SIX	112 - 78
DG111F	♦SIX	112 - 79
DG111L	♦SIX	112 - 80
DG112F	♦SIX	112 - 81
DG112L	♦SIX	112 - 82
DG116L	♦SIX	106 - 85
DG118L	♦SIX	106 - 86
DG120L	♦SIX	106 - 87
DG121L	♦SIX	106 - 88
DG122L	♦SIX	106 - 89
DG123L	♦SIX	106 - 90
DG125L	♦SIX	106 - 91
DG126L	CRY	111 - 19
	♦SIX	
DG129L	CRY	111 - 20
	♦SIX	
DG133L	CRY	111 - 21
	♦SIX	
DG140L	CRY	111 - 22
	♦SIX	
DG141L	CRY	111 - 23
	♦SIX	
DG142L	CRY	96 - 77
	♦SIX	
DG143L	CRY	96 - 78
	♦SIX	
DG144L	CRY	96 - 79
	♦SIX	
DG145L	CRY	96 - 80
	♦SIX	
DG146L	CRY	96 - 81
	♦SIX	
DG200	RTN	50 - 19
DG201	RTN	87 - 13
DG226L	♦SIX	106 - 92
DG229L	♦SIX	106 - 93
DG232	TRC	49 - 43
DG233	TRC	54 - 24
DG233L	♦SIX	106 - 94
DG234L	♦SIX	106 - 95
DG239	TRC	49 - 44
DG320	HIS	71 - 70
DG326L	♦SIX	106 - 96
DG329L	♦SIX	106 - 97
DG332	TRC	49 - 88
DG333	TRC	54 - 46
DG333L	♦SIX	106 - 98
DG334L	♦SIX	106 - 99
DG335	♦HIS	72 - 27
DG336	♦HIS	72 - 28
DG426L	♦SIX	112 - 83
DG429L	♦SIX	112 - 84
DG432	TRC	51 - 13
DG433	TRC	54 - 99
DG433L	♦SIX	112 - 85
DG434L	♦SIX	112 - 86
DG440L	♦SIX	112 - 87
DG441L	♦SIX	112 - 88
DG681	♦CEQ	49 - 3
DG781	♦CEQ	49 - 73
DG881	♦CEQ	50 - 50
DG981	♦CEQ	51 - 55
DI20	♦HIS	75 - 24
DI21	♦HIS	70 - 95
DI30	♦HIS	75 - 33
DI31	♦HIS	71 - 49
DI35	♦HIS	75 - 39
DI36	♦HIS	73 - 49
DI130	HIS	80 - 78
DI320	HIS	71 - 71
DI335	♦HIS	72 - 29
DI340	HIS	73 - 57
DJ20	♦HIS	75 - 25
DJ30	♦HIS	75 - 34
DJ35	♦HIS	75 - 40
DJ130	HIS	80 - 79
DJ335	HIS	72 - 24
DK320	HIS	71 - 72
DL20	♦HIS	70 - 96
DL30	♦HIS	71 - 50
DL35	♦HIS	73 - 50
DL130	HIS	80 - 80
DL320	HIS	71 - 73
DL335	♦HIS	72 - 30
DLMD	WLD	46 - 88
DM01	♦ADC	92 - 51
DM11-1	CAM	49 - 23
DM11-2	CAM	49 - 24
DM11-3	CAM	49 - 25
DM11-4	CAM	49 - 26
DM13	♦VDM	93 - 78
DM20	♦HIS	92 - 66
DM20A	♦HIS	92 - 67
DM23	♦VDM	93 - 96
DM30	♦HIS	92 - 83
DM30A	♦HIS	92 - 84
DM35	♦HIS	93 - 8
DM35A	♦HIS	93 - 9
DM70L00F	♦NSC	none
Repl.by SN54L00R Obs.		
DM70L10F	♦NSC	none
Repl.by SN54L10R Obs.		
DM70L20F	♦NSC	none
Repl.by SN54L20R Obs.		
DM75L01F	♦NSC	none
Repl.by SN54L73R Obs.		
DM75L71F	♦NSC	none
Repl.by SN54L71R Obs.		
DM75L72F	♦NSC	none
Repl.by SN54L72R Obs.		
DM75L78F	♦NSC	none
Repl.by SN54L78R Obs.		
DM80L00F	♦NSC	none
Repl.by SN74L00R Obs.		
DM80L10F	♦NSC	none
Repl.by SN74L10R Obs.		
DM80L20F	♦NSC	none
Repl.by SN74L20R Obs.		
DM85L01F	♦NSC	none
Repl.by SN74L73R Obs.		
DM85L71F	♦NSC	none
Repl.by SN74L71R Obs.		
DM85L72F	♦NSC	none
Repl.by SN74L72R Obs.		
DM85L78F	♦NSC	none
Repl.by SN74L78R Obs.		
DM130	HIS	92 - 89
DM335	♦HIS	93 - 24
DM336	♦HIS	93 - 29
DM337	♦HIS	93 - 30
DM340	HIS	40 - 81
DM341	HIS	40 - 82
DM3510B	♦INI	92 - 103
DM3520B	♦INI	92 - 104
DM3710B	♦INI	92 - 91
DM3720B	♦INI	92 - 92
DM4410B	♦INI	93 - 53
DM4420B	♦INI	93 - 54
DM7040	♦NSC	none
Repl.by SN5440N Cur.		
DM7200	♦NSC	110 - 59
DM7210	♦NSC	110 - 60
DM7500D	♦NSC	none
Repl.by SN5476J Cur.		
DM7501D	♦NSC	none
Repl.by SN5473J Cur.		
DM7510D	NSC	38 - 38
DM7520	♦NSC	111 - 9
DM7550D	♦NSC	none
Repl.by SN5475J Cur.		
DM7800	♦NSC	103 - 32
DM7820	♦NSC	99 - 45
DM7830	♦NSC	99 - 46
DM7840D	♦NSC	none
Repl.by SN5441AJ Cur.		
DM7842D	♦NSC	none
Repl.by SN5442J Cur.		
DM8000N	♦NSC	none
Repl.by SN7400N Cur.		
DM8010N	♦NSC	none
Repl.by SN7410N Cur.		
DM8020N	♦NSC	none
Repl.by SN7420N Cur.		
DM8040	♦NSC	none
Repl.by SN7440N Cur.		
DM8200	NSC	110 - 61

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK

Obs-In this book

Δ-Registered with JEDEC by this manufacturer

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
DM8200D	♦NSC	110- 62	DTND14	TRC	58- 49	ECL2520	♦TII	56- 31	F005-3	HSE	39- 4	FF742	♦CEQ	33- 81
DM8210	♦NSC	110- 63	DTuL930#1	ELLB	76- 56		♦TIIB		F1822A	UNC	44-101	FF743	♦CEQ	35- 20
DM8210D	NSC	110- 64	FSC	SGAI		ECL2521	♦TII	56- 32	F1822B	UNC	42- 95	FF745	♦CEQ	31- 15
DM8500E	NSC	24- 8	DTuL930#2	ELLB	76- 57		♦TIIB		F1831	♦UNC	44-102	FF834	♦CEQ	35- 22
DM8500N	♦NSC	none	FSC	SGAI		ECL2522	♦TII	56- 33	F1832,A	♦UNC	44-103	FF841	♦CEQ	31- 40
Repl.by SN7476N Cur.			DTuL931	FSC	27- 17		♦TIIB		F11001	TSC	30- 28	FF842	♦CEQ	33- 92
DM8501D	♦NSC	24- 9		SGAI		ECL2523	♦TII	56- 34	F11004	TSC	30- 29	FF843	♦CEQ	35- 23
DM8501N	♦NSC	none	DTuL932#1	ELLB	76- 58		♦TIIB		F11008	TSC	30- 30	FF845	♦CEQ	31- 41
Repl.by SN7473N Cur.			FSC	SGAI		ECL2530	♦TII	112- 59	F41001	TSC	30- 31	FF881	♦EMC	33-105
DM8520	♦NSC	111- 10	DTuL932#2	ELLB	76- 59		♦TIIB		F41008	TSC	30- 32	FF882	♦EMC	33-106
DM8550D	NSC	37- 86	FSC	SGAI		ECL2531	♦TII	112- 17	FA20	♦HIS	32- 88	FF883	EMC	23- 39
DM8550N	♦NSC	none	DTuL933#1	ELLB	85- 90		♦TIIB		FA30	♦HIS	32-102	FF934	♦CEQ	35- 26
Repl.by SN7475N Cur.			FSC	SGAI		ECL2536	♦TII	95- 77	FA35	♦HIS	33- 10	FF941	♦CEQ	31- 95
DM8570D	NSC	89- 60	DTuL933#2	ELLB	85- 91		♦TIIB		FA130	HIS	32- 99	FF942	♦CEQ	34- 47
DM8590D	NSC	89- 33	FSC	SGAI		ECL2537	♦TII	95- 78	FA320	HIS	31- 32	FF943	♦CEQ	35- 27
DM8800	♦NSC	103- 33	DTuL936	FSC	99-108		♦TIIB		FA335	♦HIS	33- 97	FF945	♦CEQ	31- 96
DM8810	♦NSC	70- 37	DTuL937	FSC	99-109	ECL2540	♦TII	21- 45	FA340	HIS	23- 69	FF983	EMC	24- 64
DM8811	♦NSC	70- 38	DTuL944#1	ELLB	76- 60		♦TIIB		FC15	XDS	27- 65	FF1414B	♦INI	37-105
DM8820	♦NSC	99- 47	FSC	SGAI		ECL2541	♦TII	30- 21	FC17	XDS	35- 78	FF1424B	♦INI	37-106
DM8820D	NSC	98- 96	DTuL944#2	ELLB	76- 61		♦TIIB		FC18	XDS	27- 66	FF1514B	♦INI	37-103
DM8830	♦NSC	99- 48	FSC	SGAI		ECL2542	♦TII	30- 22	FC19	XDS	32- 94	FF1524B	♦INI	37-104
DM8830D	NSC	99- 49	DTuL945#1	ELLB	30- 38		♦TIIB		FC20	XDS	27- 79	FF1713B	INI	37- 99
DM8840D	♦NSC	46- 71	FSC	SGAI		ED1	CLC	95- 13	FCH102	APX	62- 72	FF1723B	INI	37-100
DM8840N	NSC	none	DTuL945#2	ELLB	30- 39	ED1A	CLC	109- 74	♦PHIN	RTCF		FF2414B	♦INI	28- 13
Repl.by SN7441AN Cur.			FSC	SGAI		EG1415B	INI	83- 48	FCH112	APX	62- 73	FF2424B	♦INI	28- 14
DM8842N	♦NSC	none	DTuL946#1	ELLB	76- 62	EG1425B	INI	83- 49	♦PHIN	RTCF		FF2514B	♦INI	28- 9
Repl.by SN7442N Cur.			FSC	SGAI		EG1514B	INI	83- 45		♦VALG		FF2524B	♦INI	28- 10
DN1	♦CLC	61- 34	DTuL946#2	ELLB	76- 63	EG1524B	INI	83- 46	FCH122	APX	62- 74	FF2713B	INI	27- 75
DN1A	♦CLC	61- 36	FSC	SGAI		EG1713B	INI	83- 35	♦PHIN	RTCF		FF2723B	INI	27- 76
DN2	♦CLC	61- 37	DTuL948#1	ELLB	30- 40	EG1723B	INI	83- 36	FCH132	APX	62- 75	FF3317C	INI	38- 3
DN3	♦CLC	71- 4	FSC	SGAI		EM2500	♦EMC	33- 74	♦PHIN	RTCF		FF3327C	INI	38- 4
DN3A	♦CLC	71-104	DTuL948#2	ELLB	30- 41	EM2501	♦EMC	35- 77		♦VALG		FF3415C	♦INI	38- 1
DN4	♦CLC	73- 51	FSC	SGAI		EM2502	♦EMC	32- 93	FCH142	APX	62- 76	FF3425C	♦INI	38- 2
DN5	CLC	71- 3	DTuL949#1	FSC	76- 64	EM2503	♦EMC	70-104	♦PHIN	RTCF		FF3515C	♦INI	37-108
DN5A	CLC	71- 96		SGAI		EM2503A	♦EMC	70-105	FCH152	APX	62- 77	FF3525C	♦INI	37-109
DN6	CLC	73- 2	DTuL949#2	FSC	76- 65	EM2504	♦EMC	58- 70	♦PHIN	RTCF		FF3714C	INI	37-101
DN20	♦HIS	75- 26		SGAI		EM2504A	♦EMC	58- 71	FCH162	APX	62- 78	FF3724C	INI	37-102
DN21	CLC	61- 33	DTuL950#1	FSC	31- 34	EM2505	♦EMC	103- 80	♦PHIN	RTCF		FF4317B	INI	28-101
DN23	CLC	70- 88		SGAI		EM2506	♦EMC	91- 63		♦VALG		FF4327B	INI	28-102
DN25	CLC	70- 78	DTuL950#2	FSC	31- 35	EM2506S2	♦EMC	91- 87	FCH172	APX	62- 79	FF4415C	♦INI	28- 65
DN30	♦HIS	75- 35		SGAI		EM2507	♦EMC	70-106	♦PHIN	RTCF		FF4425C	♦INI	28- 66
DN31	♦CLC	73- 43	DTuL951#1	ELLB	92- 39	EM2508	♦EMC	49- 45		♦VALG		FF4515C	♦INI	28- 37
DN32	♦CLC	73- 44	FSC	SGAI		EM2508A	♦EMC	49- 46	FCH182	APX	62- 80	FF4525C	♦INI	28- 38
DN33	♦CLC	73- 45	DTuL951#2	ELLB	92- 40	EM2509	♦EMC	54- 25	♦PHIN	RTCF		FF4714C	INI	28- 5
DN34	♦CLC	73- 46	FSC	SGAI		EM2509A	♦EMC	54- 26	FCH192	APX	62- 81	FF4724C	INI	28- 6
DN35⍁	♦HIS	83- 47	DTuL961#1	FSC	76- 66	EM2510	♦EMC	39- 6	♦PHIN	RTCF		FF5414B	INI	35-105
DN35#	♦CLC	73- 47		SGAI		EM2510A	♦EMC	39- 7		♦VALG		FF5424B	INI	35-106
DN36	♦CLC	73- 48	DTuL961#2	FSC	76- 67	EM2511	♦EMC	101- 26	FCH202	APX	99-110	FF5514B	INI	35-102
DN130	HIS	75- 30		SGAI		EM2515	♦EMC	105- 8	♦PHIN	RTCF		FF5524B	INI	35-103
DN335	♦HIS	72- 31	DTuL962#1	ELLB	76- 68	EM2516	♦EMC	104- 93	FCH212	APX	100- 1	FF5713B	INI	35- 74
DNXD	WLD	46- 89	FSC	SGAI		EM2517	♦EMC	49- 47	♦PHIN	RTCF		FF5723B	INI	35- 75
DO320	HIS	47- 20	DTuL962#2	ELLB	76- 69	EM2520	♦EMC	108- 75		♦VALG		FF6317C	INI	36- 46
DP101	♦APX	105- 35	FSC	SGAI		EM2521	♦EMC	109- 20	FCH222	APX	62- 82	FF6327C	INI	36- 47
DR01	♦ADC	112- 19	DTuL963#1	FSC	76- 70	EM2600	♦EMC	33- 93	♦PHIN	RTCF		FF6415C	INI	36- 35
DR03	♦ADC	105- 76		SGAI		EM2601	EMC	35-104		♦VALG		FF6425C	INI	36- 36
DR871	♦EMC	73- 7	DTuL963#2	FSC	76- 71	EM2602	♦EMC	33- 7	FCH232	RTCF	76- 74	FF6515C	INI	36- 13
DR872	♦EMC	73- 8		SGAI		EM2603	♦EMC	71-110	FCJ102	APX	23- 10	FF6525C	INI	36- 14
DR873	EMC	73- 9	DX52	XDS	89- 23	EM2603A	♦EMC	72- 1	♦PHIN	RTCF		FF6714C	INI	35-100
DR972	EMC	74- 54	E001	HSE	45- 20	EM2604	♦EMC	58-109		♦VALG		FF6724C	INI	35-101
DS20	♦HIS	92- 68	E002-1	HSE	103- 94	EM2604A	♦EMC	59- 1	FCK102	♦PHIN	93- 12	FF7317E	INI	28-103
DS20A	♦HIS	92- 69	E002-2	HSE	103- 95	EM2605	♦EMC	104- 18		RTCF		FF7327E	INI	28-104
DS30	♦HIS	92- 85	E002-3	HSE	103- 96	EM2606S2	♦EMC	91- 88	FCK102Q	♦PHIN	93- 72	FF7416C	INI	28- 67
DS30A	♦HIS	92- 86	E002-4	HSE	103- 97	EM2608	♦EMC	50- 61	FCL102	♦PHIN	104- 36	FF7426C	INI	28- 68
DS35	♦HIS	93- 10	E11001	TSC	85- 27	EM2608A	♦EMC	50- 62		RTCF		FF7515C	INI	28- 39
DS35A	♦HIS	93- 11	E11004	TSC	85- 28	EM2609	♦EMC	54- 75	FCL111	APX	46- 9	FF7525C	INI	28- 40
DS130	HIS	92- 90	E11008	TSC	85- 29	EM2609A	♦EMC	54- 76		RTCF		FF7714C	INI	28- 7
DT12-1	XDS	96- 96	E12001	TSC	84- 47	EM2610	♦EMC	39- 12	FCY102	APX	84- 49	FF7724C	INI	28- 8
DT12-2	XDS	96- 97	E16501	TSC	106- 67	EM2611	♦EMC	101- 99		♦PHIN		FF8317E	INI	35- 11
DT13-1	XDS	96- 98	E41001	TSC	85- 30	EM2617	♦EMC	50- 57	FDH106	♦PHIN	97- 81	FF8327E	INI	35- 12
DT13-2	XDS	96- 99	E41008	TSC	85- 31	EM2620	EMC	109- 79	FDH116	♦PHIN	108- 9	FF8416C	INI	34- 50
DT19	XDS	95- 54	E42001	TSC	84- 48	EM2621	♦EMC	109- 80	FDH126	♦PHIN	108- 10	FF8426C	INI	34- 51
DTL393051	SSD	77-108	EA1401	EAI	109- 34	EM2622	♦EMC	83- 50	FDH136	♦PHIN	108- 11	FF8515C	INI	33-107
DTL393059	SSD	78- 66	EA1801	♦EAI	109- 35	EM2623	♦EMC	98- 59	FDH146	♦PHIN	108- 12	FF8525C	INI	33-108
DTL393251	SSD	77-109	EA1802	♦EAI	109- 36	EM3001	♦EMC	33- 5	FDH156	♦PHIN	108- 13	FF8714C	INI	33- 90
DTL393259	SSD	78- 67	EA1803	♦EAI	109- 37	EM3002	♦EMC	33- 6	FF4	♦SCI	22- 49	FF8724C	INI	33- 91
DTL393351	SSD	86- 24	EA1804	♦EAI	109- 38	EM3003	♦EMC	72- 2	FF11-1	CAM	31- 3	FFD04	TRC	21- 1
DTL393359	SSD	86- 31	EA1806	♦EAI	109- 39	EM3003A	♦EMC	72- 3	FF11-2	CAM	37- 19	FFH101A2	♦RTCF	79-104
DTL394451	SSD	77-110	EA1808	♦EAI	109- 40	EM3004	♦EMC	59- 2	FF11-3	CAM	37- 88	FFH101C1	♦RTCF	79-105
DTL394459	SSD	78- 68	EA3000	♦EAI	109- 41	EM3004C	♦EMC	59- 3	FF11-4	CAM	22- 50	FFH102A2	♦RTCF	69- 60
DTL394551	SSD	35- 47	ECL2500	♦TII	56- 15	EM3005	♦EMC	104- 19	FF14	♦VDM	32- 90	FFH102C1	♦RTCF	69- 61
DTL394559	SSD	35- 57		♦TIIB		EM3006	♦EMC	91- 89	FF16	♦VDM	32- 91	FFH111A2	♦RTCF	79-106
DTL394651	SSD	78- 1	ECL2501	♦TII	56- 16	EM3008	♦EMC	50- 58	FF20	♦HIS	32- 89	FFH111C1	♦RTCF	79-107
DTL394659	SSD	78- 69		♦TIIB		EM3008C	♦EMC	50- 59	FF21-1	CAM	31- 48	FFH112A2	♦RTCF	69- 62
DTL394851	SSD	35- 48	ECL2502	♦TII	56- 17	EM3009C	♦EMC	54- 74	FF21-2	CAM	37- 40	FFH112C1	♦RTCF	69- 63
DTL394859	SSD	35- 58		♦TIIB		EM3010	♦EMC	39- 11	FF21-3	CAM	87- 16	FFH121A2	♦RTCF	77- 91
DTL395051	SSD	30- 63	ECL2503	♦TII	56- 18	EM3011	♦EMC	101-100	FF21-4	CAM	22- 85	FFH121C1	♦RTCF	77- 92
DTL395059	SSD	30- 73		♦TIIB		EM3015	♦EMC	106- 44	FF24	♦VDM	33- 3	FFH122A2	♦RTCF	68- 3
DTL395151	SSD	92- 14	ECL2504	♦TII	56- 19	EM3016	♦EMC	105- 17	FF26	♦VDM	33- 4	FFH122C1	♦RTCF	68- 4
DTL395159	SSD	92- 16		♦TIIB		EM3017	♦EMC	50- 60	FF30	♦HIS	32-103	FFH131A2	RTCF	68- 73
DTL396251	SSD	78- 2	ECL2505	♦TII	56- 20	EM3019	♦EMC	101-101	FF31-1	CAM	31-103	FFH131C1	RTCF	68- 74
DTL396259	SSD	78- 70		♦TIIB		EM3020	♦EMC	109- 81	FF32	♦VDM	33- 13	FFH132A2	RTCF	68- 75
DTL693051	SSD	78- 3	ECL2506	♦TII	56- 21	EM3022	♦EMC	109- 82	FF34	♦VDM	33- 14	FFH132C1	RTCF	68- 76
DTL693059	SSD	78- 71		♦TIIB		EM3051	EMC	109- 83	FF35	♦HIS	33- 11	FFH141A2	RTCF	69- 64
DTL693251	SSD	78- 4	ECL2507	♦TII	56- 22	EM5001	♦EMC	38- 8	FF104	TRC	32- 44	FFH141C1	RTCF	69- 65
DTL693259	SSD	78- 72		♦TIIB		EM5002	♦EMC	35- 69	FF130	HIS	32- 98	FFH142A2	♦RTCF	69- 66
DTL693351	SSD	86- 25	ECL2508	♦TII	56- 23	EM5003	♦EMC	58- 57	FF203	TRC	32- 46	FFH142C1	♦RTCF	69- 67
DTL693359	SSD	86- 32		♦TIIB		EM5004	♦EMC	58- 58	FF204	TRC	32- 47	FFJ101A2	♦RTCF	34- 36
DTL694451	SSD	78- 5	ECL2509	♦TII	56- 24	EM5005	♦EMC	58- 59	FF205	TRC	32- 48	FFJ101C1	♦RTCF	34- 37
DTL694459	SSD	78- 73		♦TIIB		EM5007	♦EMC	91- 76	FF303	TRC	32- 49	FFJ102A2	♦RTCF	34- 38
DTL694551	SSD	35- 49	ECL2510	♦TII	56- 25	EM5008	♦EMC	49- 11	FF304	TRC	32- 50	FFJ102C1	♦RTCF	34- 39
DTL694559	SSD	35- 59		♦TIIB		EM5009	♦EMC	49- 12	FF305	TRC	32- 51	FFY101A2	♦RTCF	84- 50
DTL694651	SSD	78- 6	ECL2511	♦TII	56- 26	EM5011	♦EMC	39- 35	FF320	HIS	31- 33	FFY101C1	♦RTCF	84- 51
DTL694659	SSD	78- 74		♦TIIB		EM5071	♦EMC	58- 60	FF335	♦HIS	31- 53	FFY102A2	♦RTCF	84- 52
DTL694851	SSD	35- 50	ECL2512	♦TII	56- 27	EO11-1	CAM	83-110	FF402	TRC	33-109	FFY102C1	♦RTCF	84- 53
DTL694859	SSD	35- 60		♦TIIB		EO21-1	CAM	84- 1	FF403	TRC	32- 59	FFY111A2	♦RTCF	84- 54
DTL695051	SSD	30- 64	ECL2513	♦TII	56- 28	EO335	♦HIS	83- 52	FF404	TRC	32- 60	FFY111C1	♦RTCF	84- 55
DTL695059	SSD	30- 74		♦TIIB		EOL	WLD	83-109	FF405	TRC	32- 61	FFY112A2	♦RTCF	84- 56
DTL695151	SSD	92- 15	ECL2515	♦TII	56- 29	ERSC1	♦DAD	108- 76	FF634	♦CEQ	35- 16	FFY112C1	♦RTCF	84- 57
DTL695159	SSD	92- 17		♦TIIB		ERSC2	♦DAD	108- 77	FF641	♦CEQ	30-105	FH15	XDS	27- 67
DTL696251	SSD	78- 7	ECL2516	♦TII	56- 30	ERSC3	♦DAD	108- 78	FF642	♦CEQ	33- 68	FH17	XDS	35- 95
DTL696259	SSD	78- 75		♦TIIB		F001	HSE	37- 80	FF643	♦CEQ	35- 17	FH18	XDS	27- 68
DTN213	TRC	58- 69	ECL2517	♦TII	46- 28	F003	HSE	36- 9	FF645	♦CEQ	30-106	FH19	XDS	32-101
DTN313	TRC	58- 68		♦TIIB		F005-1	HSE	39- 8	FF734	♦CEQ	35- 19	FH20	XDS	28- 2
DTN413	TRC	59- 10				F005-2	HSE	39- 3	FF741	♦CEQ	31- 14			

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK

Obs-In this book

Δ-Registered with JEDEC by this manufacturer

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
FHH101A	APX	67-106	G117L	♦SIX	108-17	GA301	EEC	22-47	GEL1494AD	GESY	103-59	GX12	XDS	109-53
	RTCF		G118F	♦SIX	108-18	GA303	EEC	58-48	GFF1-1	RTN	22-68	H001	HSE	111-3
FHH101B	APX	67-107	G118L	♦SIX	108-19	GA306	EEC	91-72	GFF1-5	RTN	23-47	H100L	♦SIX	64-108
	RTCF		G119F	♦SIX	108-20	GA307	EEC	103-71	GFF1-.2	RTN	22-52	H100P	♦SIX	64-109
FHH121A	APX	67-108	G119L	♦SIX	108-21	GA308	EEC	58-55	GFF2-1	RTN	31-25	H101L	♦SIX	65-1
	♦RTCF		G121	EEC	23-40	GA311	EEC	22-48	GFF2-5	RTN	31-72	H101P	♦SIX	65-2
FHH121B	APX	67-109	G123	EEC	70-81	GA321	EEC	21-4	GFF2-.2	RTN	31-4	H103	SGAI	75-104
	♦RTCF		G123L	♦SIX	108-22	GA322	EEC	58-56	GFF3-1	RTN	35-99	H109	SGAI	48-14
FHH141A	APX	67-110	G124L	♦SIX	108-23	GA323	EEC	39-32	GFF3-2	RTN	35-72	H110	SGAI	22-55
	RTCF		G125F	♦SIX	107-24	GA325	EEC	70-84	GFF3-5	RTN	36-12	H111	SGAI	22-56
FHH141B	APX	68-1	G126F	♦SIX	107-25	GA326	EEC	53-110	GFF3-.2	RTN	35-73	H113	SGAI	102-75
	RTCF		G127F	♦SIX	107-26	GA327	EEC	49-6	GFF4-20	RTN	29-104	H114	SGAI	102-76
FHH161A	APX	52-57	G128F	♦SIX	107-27	GA328	EEC	49-7	GG851	♦EMC	73-22	H11001	TSC	98-18
	RTCF		G129F	♦SIX	107-28	GA329	EEC	89-77	GG852	♦EMC	73-23	H11004	TSC	98-19
FHH161B	APX	52-58	G130F	♦SIX	107-29	GA330	EEC	91-73	GG853	♦EMC	73-24	H11008	TSC	98-20
	RTCF		G131F	♦SIX	107-30	GA331	EEC	101-11	GG854	♦EMC	73-25	H41001	TSC	98-21
FHH181A	APX	52-59	G132F	♦SIX	107-31	GA401	EEC	51-62	GG855	♦EMC	87-41	H41008	TSC	98-22
	RTCF		G201	EEC	22-65	GA402	EEC	51-63	GG859	EMC	73-26	HA5401	♦TRC	98-62
FHH181B	APX	52-60	G202	♦EEC	111-96	GA403	EEC	87-67	GG860	EMC	73-27	HBH25101	FSC	37-47
	RTCF		G203	EEC	101-72	GA404	EEC	51-64	GG952	EMC	74-55	HBH25109	FSC	37-48
FHJ101A	APX	25-47	G204A	EEC	101-73	GA405	EEC	51-65	GG953	EMC	74-56	HBH25121	FSC	23-67
	RTCF		G205	♦EEC	112-68	GA406	EEC	51-66	GG955	EMC	88-41	HBH25129	FSC	23-68
FHJ101B	APX	25-48	G207	EEC	109-31	GA421	EEC	51-67	GG956	EMC	74-57	HBW25101	FSC	37-49
	RTCF		G208	EEC	71-51	GA501	EEC	105-73	GG957	EMC	59-33	HBW25109	FSC	37-50
FHJ121A	APX	25-49	G211	EEC	31-22	GA502	EEC	105-108	GG958	EMC	74-58	HD1-0145-2	HAS	110-19
	RTCF		G221	EEC	28-3	GA504	EEC	105-109	GG959	EMC	74-59	HD1-0145-5	HAS	110-20
FHJ121B	APX	25-50	G223	EEC	71-52	GA506	EEC	93-31	GG961	EMC	52-34	HDD930R	HAS	68-23
	RTCF		G224	EEC	39-38	GA507	EEC	105-38	GG1414B	♦INI	63-19	HDD932R	HAS	68-24
FHJ141	RTCF	110-65	G225	EEC	21-8	GA508	EEC	105-39	GG1424B	♦INI	63-20	HDD944R	HAS	68-25
FHY101	APX	61-14	G301	EEC	22-45	GA510A	EEC	40-86	GG1514B	♦INI	63-9	HDD945R	HAS	37-87
	RTCF		G302	♦EEC	111-92	GA517	EEC	109-18	GG1524B	♦INI	63-10	HDD946R	HAS	68-26
FHY121	APX	61-15	G303	EEC	58-47	GA518	EEC	96-57	GG1713B	INI	62-102	HDD962R	HAS	68-27
	RTCF		G304	♦EEC	112-109	GA523	EEC	46-106	GG1723B	INI	62-103	HDD980R	HAS	98-89
FJ5101	♦TRC	23-43	G305	♦EEC	112-67	GA601	EEC	51-5	GG2414B	♦INI	63-21	HDD981R	HAS	111-103
FJH371	♦RTCF	96-101	G306	EEC	91-70	GA602	EEC	51-6	GG2424B	♦INI	63-22	HDT54H00R	HAS	68-5
FJH381	♦RTCF	47-75	G307	EEC	103-70	GA603	EEC	51-7	GG2514B	♦INI	63-11	HDT54H20R	HAS	68-6
FJJ211Δ	APX	45-15	G308	EEC	58-61	GA604	EEC	51-8	GG2524B	♦INI	63-12	HDT54H51R	HAS	60-30
FJJ391	♦VALG	38-17	G311	EEC	22-46	GA605	EEC	51-9	GG2713B	INI	62-104	HDT54H54R	HAS	60-31
FKH111	♦RTCF	56-10	G321	EEC	21-3	GA606	EEC	51-10	GG2723B	INI	62-105	HDT54H74R	HAS	38-43
FL19	XDS	33-12	G322	EEC	58-54	GA621	EEC	51-11	GG3317C	INI	63-94	HEPC1036P-RT	MOTA	99-54
FL21	XDS	27-72	G323	EEC	39-31	GA701	EEC	49-81	GG3327C	INI	63-95	HEPC1046P-RT	MOTA	64-22
FL22	XDS	27-73	G325	EEC	70-82	GA702	EEC	49-82	GG3415C	♦INI	63-48	HEPC1053P-RT	♦MOTA	22-5
FSS101	FERB	108-101	G326	EEC	53-109	GA703	EEC	49-83	GG3425C	♦INI	63-49	HEPC1057P-RT	♦MOTA	68-38
FT10	XDS	36-32	G327	EEC	49-4	GA704	EEC	49-84	GG3515C	♦INI	63-30	HEPC3002P-RT	♦MOTA	58-11
FT11	XDS	44-27	G328	EEC	49-5	GA705	EEC	49-85	GG3714C	INI	63-13	HEPC3804P-RT	MOTA	92-13
FT12	XDS	36-33	G330	EEC	91-71	GA706	EEC	49-86	GG3724C	INI	63-14	I11001	TSC	98-23
FT20	XDS	32-58	G331	EEC	101-10	GA721	EEC	49-87	GG4317C	INI	63-96	I11004	TSC	100-3
FT27	XDS	110-26	G401	EEC	51-56	GAI3-20	RTN	102-60	GG4327C	INI	63-97	I11008	TSC	98-24
FT43	XDS	36-34	G402	EEC	51-57	GB1414B	♦INI	63-17	GG4415C	♦INI	63-50	I41001	TSC	100-4
FT56	XDS	34-46	G403	EEC	87-66	GB1424B	♦INI	63-18	GG4425C	♦INI	63-51	I41008	TSC	100-5
FT57	XDS	31-93	G404	EEC	51-58	GB1514B	♦INI	63-5	GG4515C	♦INI	63-31	IAG0286	♦EEC	96-86
FT58	XDS	31-71	G405	EEC	51-59	GB1524B	♦INI	63-6	GG4525C	♦INI	63-32	IA00220	♦EEC	52-37
FuL90029	FSC	100-2	G406	EEC	51-60	GB1713B	INI	62-100	GG4714C	INI	63-15	IA00221	♦EEC	74-89
	SGAI		G416L	♦SIX	108-24	GB1723B	INI	62-101	GG4724C	INI	63-16	IAO-0209	♦EEC	52-38
FuL90329	FSC	62-51	G417L	♦SIX	108-25	GB2317C	INI	63-92	GGD1-.2	RTN	49-33	IBC0208	♦EEC	43-85
	SGAI		G418L	♦SIX	108-26	GB2327C	INI	63-93	GH10	XDS	88-85	IBC0232	♦EEC	43-86
FuL90529	FSC	37-7	G419L	♦SIX	108-27	GB2415C	♦INI	63-46	GH11	XDS	109-51	IBC0254	♦EEC	44-45
	SGAI		G421	EEC	51-61	GB2425C	♦INI	63-47	GH14	XDS	87-12	IBC2232	♦EEC	43-87
FuL91029	FSC	62-52	G501	EEC	105-72	GB2515C	♦INI	63-28	GH15	XDS	46-17	IBD2265	♦EEC	46-54
	SGAI		G502	EEC	105-106	GB2525C	♦INI	63-29	GHA1-1	RTN	83-102	IC10	XDS	53-36
FuL91129	FSC	63-110	G504	EEC	105-107	GB2714C	INI	63-7	GHA1-5	RTN	83-103	IC11	XDS	56-49
	SGAI		G506	EEC	93-25	GB2724C	INI	63-8	GHA1-.2	RTN	83-101	IC12	XDS	75-50
FuL91429	FSC	62-53	G507	EEC	105-36	GBC1-1	RTN	43-40	GIG1-1	RTN	54-52	IC14	XDS	75-51
	SGAI		G508	EEC	105-37	GBC1-5	RTN	43-95	GIG1-5	RTN	54-98	IC15	XDS	75-75
FuL91529	FSC	62-54	G510A	EEC	40-84	GBC1-.2	RTN	43-13	GIG1-.2	RTN	54-19	IC200	RTN	50-18
	SGAI		G517	EEC	109-17	GC10	XDS	88-84	GLC1-.2	RTN	102-96	ICD0205	♦EEC	73-10
FuL92129	FSC	85-50	G518	EEC	96-56	GC11	XDS	109-26	GLC2-.2	RTN	102-97	ICD2205	♦EEC	73-11
	SGAI		G523	EEC	46-105	GC14	XDS	86-105	GLC3-.2	RTN	102-98	ICD2270	♦EEC	73-12
FuL92328	FSC	21-35	G601	EEC	50-108	GC15	XDS	46-14	GLC4-.2	RTN	102-99	ID2L,M,H	ABA	99-27
	SGAI		G602	EEC	50-109	GCG1-1	RTN	39-10	GLC5-.2	RTN	102-100	ID012	♦VDM	104-88
FuL92329	FSC	21-36	G603	EEC	50-110	GCG1-5	RTN	39-14	GLC6-.2	RTN	102-101	IDA0245	EEC	102-93
	SGAI		G604	EEC	51-1	GCG1-.2	RTN	39-5	GLC7-1	RTN	103-21	IDA0255	♦EEC	102-94
FuL92629	FSC	23-95	G605	EEC	51-2	GCG2-1	RTN	40-38	GLC8-1	RTN	103-22	IDA9001	♦EEC	96-64
	SGAI		G606	EEC	51-3	GCG2-5	RTN	40-60	GLC9-1	RTN	103-23	IDC1	RTN	44-70
FuL92729	FSC	99-53	G621	EEC	51-4	GCG2-.2	RTN	40-19	GLC9-5	RTN	103-48	IDC1-.2	RTN	44-69
	SGAI		G701	EEC	49-74	GDA1-.2	RTN	96-60	GLC9-.2	RTN	102-102	IDC0210	♦EEC	43-88
FuL93029#1	FSC	64-45	G702	EEC	49-75	GDA2-.2	RTN	96-61	GMV1-1	RTN	39-21	IDC0257	♦EEC	44-12
	SGAI		G703	EEC	49-76	GDC1-1	RTN	44-81	GMV1-.2	RTN	39-20	IDC2210	♦EEC	43-89
FuL93029#2	FSC	64-46	G704	EEC	49-77	GDC1-5	RTN	44-93	GNA1-1	RTN	71-58	IDC2263	♦EEC	42-77
	SGAI		G705	EEC	49-78	GDC1-.2	RTN	44-68	GNA1-5	RTN	73-52	IDC2272	♦EEC	42-44
FuL93129	FSC	30-14	G706	EEC	49-79	GDD1-.2	RTN	105-5	GNA1-.2	RTN	70-98	IDC2280	♦EEC	42-59
	SGAI		G721	EEC	49-80	GDG2-1	RTN	50-23	GND1	RTN	105-62	IDD2266	♦EEC	47-27
FuL93229	FSC	64-47	G11004	TSC	57-37	GDG2-5	RTN	51-12	GOS3-1	RTN	92-102	IDN0241	♦EEC	109-54
	SGAI		G11008	TSC	57-38	GDG2-.2	RTN	49-32	GOS3-5	RTN	93-32	IDN0330	♦EEC	105-40
FuL93329	FSC	84-58	G12002	TSC	65-3	GDG3-1	RTN	54-51	GOS3-.2	RTN	92-81	IDS0246	♦EEC	109-94
	SGAI		G12003	TSC	65-4	GDG3-5	RTN	54-97	GPA1	RTN	106-10	IDS2246	♦EEC	109-95
FuL94429	FSC	64-48	G16701	TSC	72-14	GDG3-.2	RTN	54-17	GPA2	RTN	106-11	IE12H	ABA	72-18
	SGAI		G41001	TSC	57-39	GDG4-20	RTN	51-99	GR16	♦VDM	75-74	IE12L	ABA	72-106
FuL94529	FSC	30-15	G42002	TSC	65-5	GDG5-20	RTN	55-72	GR26	♦VDM	75-82	IE12M	ABA	72-23
	SGAI		G42003	TSC	65-6	GDG6-.2	RTN	54-18	GR34	♦VDM	75-84	IE12S	ABA	72-107
FuL94629	FSC	64-49	G46701	TSC	72-15	GDH106	♦SIEG	50-16	GRG1-1	RTN	109-14	IEO0227	♦EEC	83-54
	SGAI		GA14	♦VDM	75-27	GDH116	♦SIEG	58-42	GRG1-5	RTN	109-52	IEO2227	♦EEC	83-55
FuL94829	FSC	30-16	GA18	♦VDM	70-102	GDH126	♦SIEG	58-43	GRG1-.2	RTN	108-106	IF6H	ABA	22-95
	SGAI		GA24	♦VDM	75-36	GDH136	♦SIEG	53-101	GRR1	RTN	106-50	IF6L	ABA	23-33
FuL95029#1	FSC	30-17	GA28	♦VDM	71-105	GDH146	♦SIEG	97-82	GRR2	RTN	106-51	IF6M	ABA	22-96
	SGAI		GA34	♦VDM	75-41	GDH146A	♦SIEG	97-83	GRS141-7524	♦VALG	111-68	IF6S	ABA	23-34
FuL95029#2	FSC	30-18	GA36	♦VDM	73-55	GDI1-1	RTN	101-76	GRS151-7525	♦VALG	111-69	IFA0214	♦EEC	97-101
	SGAI		GA101A	EEC	34-49	GDI1-5	RTN	102-11	GSR2-1	RTN	90-63	IFF1-.2	RTN	22-53
FuL95129	FSC	91-98	GA103	EEC	102-44	GDI1-.2	RTN	101-23	GSR2-5	RTN	90-64	IFF2-.2	RTN	90-61
	SGAI		GA104A	EEC	102-45	GDI2-1	RTN	101-77	GSR2-.2	RTN	90-62	IFF0239	♦EEC	33-103
FuL96229	FSC	64-50	GA108	EEC	73-83	GDI2-5	RTN	102-12	GSR3-1	RTN	89-58	IFF0251	♦EEC	23-35
	SGAI		GA111A	EEC	23-110	GDI2-.2	RTN	101-24	GSR3-5	RTN	89-59	IFF0252	♦EEC	27-33
FU5108	TRC	31-37	GA121	EEC	23-41	GDJ106	♦SIEG	22-63	GSR3-.2	RTN	89-45	IFF0254	EEC	23-42
G101A	EEC	34-48	GA123	EEC	70-83	GDJ116	♦SIEG	45-11	GSS1	RTN	30-89	IFF0256	♦EEC	23-36
G102	♦EEC	111-99	GA201	EEC	22-66	GDL1	RTN	91-14	GST1-1	RTN	103-107	IFF2239	♦EEC	33-104
G103	EEC	102-42	GA203	EEC	101-74	GDM1-1	RTN	46-27	GST1-5	RTN	104-39	IFF2251	♦EEC	23-37
G104A	EEC	102-43	GA204A	EEC	101-75	GDM1-5	RTN	46-34	GST1-.2	RTN	103-72	IFF2252	♦EEC	27-34
G105A	♦EEC	112-69	GA208	EEC	71-53	GDM1-.2	RTN	46-21	GST2-1	RTN	103-108	IFF2256	EEC	23-38
G107	EEC	110-5	GA211	EEC	31-23	GDN116	♦SIEG	108-28	GST2-5	RTN	104-40	IFR0235	♦EEC	44-56
G108	EEC	73-82	GA221	EEC	28-4	GDN116A	♦SIEG	108-29	GST2-.2	RTN	103-73	IFR0247	♦EEC	44-58
G111A	EEC	23-109	GA222	EEC	111-97	GDN126	♦SIEG	108-30	GUL1-1	RTN	53-38	IFR2277	♦EEC	44-57
G116F	♦SIX	108-14	GA223	EEC	71-54	GDN126A	♦SIEG	108-31	GUL1-5	RTN	53-39	IFR2278	♦EEC	42-43
G116L	♦SIX	108-15	GA224	EEC	39-40	GDR1-.2	RTN	109-13	GUL1-.2	RTN	53-35	IFR2281	♦EEC	44-59
G117F	♦SIX	108-16	GA225	EEC	21-9	GEL304A1	GESY	103-60	GVC1	RTN	108-60	IG12H	ABA	87-30

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK

Obs-In this book

Δ-Registered with JEDEC by this manufacturer

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
IG12L	ABA	87- 37	ISH9007	♦EEC	108- 63	LP30	♦HIS	96- 90	MC2X	CLC	40-102	MC417L	♦MOTA	21-100
IG12M	ABA	87- 31	ISR1-.2	RTN	89- 46	LP31	♦HIS	96- 91	MC03	♦NCC	32-105	MC417P	♦MOTA	21-101
IG12S	ABA	87- 38	ISR2-.2	RTN	89- 26	LP330	♦HIS	96- 92	MC3	CLC	39- 53	MC418F	♦MOTA	38- 59
IGE0204	♦EEC	87- 39	ISR3-.2	RTN	89- 47	LP331	♦HIS	96- 93	MC3A	CLC	39- 76	MC418L	♦MOTA	38- 60
IGE2204	♦EEC	87- 40	ISR4-.2	RTN	89- 48	LRD1103	EMC	104-109	MC05	♦NCC	89- 57	MC418P	♦MOTA	38- 61
IGF0231	♦EEC	46- 60	ISR5-.2	RTN	89- 49	LS31A	CLC	103- 40	MC06	♦NCC	91- 12	MC425F	♦MOTA	101- 59
IH10	XDS	53- 37	IST0226	♦EEC	103- 62	LS32	♦CLC	103- 51	MC07	♦NCC	32-106	MC425L	♦MOTA	101- 60
IH11	XDS	56- 50	IT10	XDS	60-108	LT10	XDS	56- 4	MC08	♦NCC	89- 35	MC425P	♦MOTA	101- 61
IH14	XDS	75- 53	IT11	XDS	75- 61	LT11	XDS	56- 7	MC09	♦NCC	89- 36	MC428F	♦MOTA	86- 76
IIC0228	♦EEC	102- 13	IT13	XDS	110- 27	LT13	XDS	55-109	MC10	♦NCC	44- 39	MC467F	♦MOTA	21-102
IIC2228	♦EEC	102- 14	IT14	XDS	110- 28	LT14	XDS	55-110	MC11	♦NCC	44- 38	MC467L	♦MOTA	21-103
IL5H	ABA	105- 18	IT15	XDS	75- 62	LT67	XDS	97-109	MC12	♦NCC	42- 72	MC467P	♦MOTA	21-104
IL5L	ABA	105- 19	IT16	XDS	75- 63	LU300	SPR	84- 13	MC12N	♦NCC	44- 40	MC468F	♦MOTA	38- 62
IL5M	ABA	105- 20	IT18	XDS	75- 64	LU300K	♦SIC	84- 59	MC13	♦NCC	42- 73	MC468L	♦MOTA	38- 63
IL10	XDS	53- 40	IT27	XDS	59- 30		SPR		MC14	♦NCC	42- 66	MC468P	♦MOTA	38- 64
IL11	XDS	56- 51	IT31	XDS	75- 56	LU301A	♦SIC	86- 69	MC15	♦NCC	44- 41	MC475F	♦MOTA	101- 62
IL12	XDS	75- 54	ITC0219	♦EEC	103- 26	LU305	SPR	48- 8	MC16	♦NCC	32-107	MC475L	♦MOTA	101- 63
IL14	XDS	75- 55	ITG0217	♦EEC	109-106	LU305K	♦SIC	48- 79	MC18	♦NCC	89- 61	MC475P	♦MOTA	101- 64
IL15	XDS	75- 83	ITG0233	♦EEC	109-107		SPR		MC25	♦NCC	97- 95	MC476P	♦MOTA	48- 54
IL101	♦CEQ	104- 89	ITG2217	♦EEC	109-108	LU306	SPR	48- 9	MC26	♦NCC	109- 55	MC515L	♦MOTA	22- 23
IL102	♦CEQ	104- 90	ITG2233	♦EEC	109-109	LU306A	SIC	48- 23	MC30,X	♦HIS	40- 35	MC517F	♦MOTA	21-105
ILC0248	♦EEC	103- 49	ITT1056#1	♦ITT	45- 7	LU306K	♦SIC	48- 80	MC31	♦CLC	40- 4	MC517L	♦MOTA	21-106
ILC0249	EEC	103- 24	ITT1056#2	♦ITT	105- 68		SPR		MC32	♦CLC	40- 5	MC518F	♦MOTA	38- 65
ILC2273	♦EEC	103- 25	ITT1107C	♦ITT	109- 42	LU314	SPR	56- 86	MC33X	♦CLC	40- 42	MC518L	♦MOTA	38- 66
ILC2274	EEC	103- 50	ITT3708-2D2	♦ITT	108- 32	LU314A	SIC	59- 34	MC35,X	♦HIS	40- 59	MC525F	♦MOTA	101- 65
ILD0207	♦EEC	104-107	ITT3708-2D3	♦ITT	108- 33	LU314K	♦SIC	58- 12	MC40	♦NCC	47- 16	MC525L	♦MOTA	101- 66
IMC0243	♦EEC	109- 96	IUC1	RTN	44- 71		SPR		MC43	♦NCC	109- 56	MC567F	♦MOTA	21-107
IMC2243	♦EEC	109- 97	IUC1-.2	RTN	43- 14	LU315	SPR	56- 87	MC44	♦NCC	109- 57	MC567L	♦MOTA	21-108
IMC2275	EEC	39- 13	IUC0218	♦EEC	43- 90	LU315K	♦SIC	58- 13	MC46	♦NCC	109- 58	MC568F	♦MOTA	38- 67
IMG2269	♦EEC	73- 13	IV612	♦CEQ	101- 12		SPR		MC48	♦NCC	109- 59	MC568L	♦MOTA	38- 68
IMV0225	♦EEC	41- 11	IV712	♦CEQ	101- 41	LU316	SPR	56- 88	MC50	♦NCC	39- 30	MC575F	♦MOTA	101- 67
IN5AH	ABA	99- 28	IV812	♦CEQ	101- 95	LU316K	♦SIC	58- 14	MC50X	♦NCC	40- 34	MC575L	♦MOTA	101- 68
IN5AL	ABA	99- 29	IV912	♦CEQ	102- 46		SPR		MC51	♦NCC	92- 98	MC650G	MOTA	80- 65
IN5AM	ABA	99- 30	IX12	XDS	75- 52	LU317A	SIC	59- 35	MC60	♦NCC	101- 78	MC651F	MOTA	80- 66
IN5BH	ABA	99- 31	IXO2471	♦EEC	40- 54	LU320	SPR	21- 32	MC61☒	♦NCC	101- 79	MC652F	MOTA	30- 83
IN5BL	ABA	99- 32	IXO-0234	♦EEC	40- 56	LU320K	♦SIC	22- 90	MC62☒	♦NCC	71- 55	MC652G	MOTA	30- 84
IN5BM	ABA	99- 33	IXO-0271	♦EEC	40- 57		SPR		MC63☒	♦NCC	71- 56	MC814	MOTA	82-108
IN5H	ABA	105- 69	J001	HSE	39- 70	LU321A	SIC	23- 64	MC64☒	♦NCC	71- 57	MC831F	♦MOTA	35- 52
IN5L	ABA	105- 70	J11001	TSC	57- 40	LU322A	SIC	23- 65	MC65	MSC	84- 60	MC831G	♦MOTA	35- 53
IN5M	ABA	105- 71	J11004	TSC	57- 41	LU331	SPR	56- 89	MC66☒	♦NCC	82- 93	MC831P	♦MOTA	35- 54
IN6H	ABA	72- 19	J11008	TSC	57- 42	LU331K	♦SIC	53- 70	MC67	MSC	84- 61	MC842F	♦MOTA	38- 57
IN6L	ABA	72-108	J21001	TSC	57- 43		SPR		MC68	MSC	84- 62	MC842P	♦MOTA	38- 58
IN6M	ABA	72- 20	J41001	TSC	57- 44	LU332	SPR	56- 90	MC69	MSC	84- 14	MC860F	♦MOTA	44- 24
IN6S	ABA	72-109	J41008	TSC	57- 45	LU332K	♦SIC	53- 71	MC70	MSC	106- 39	MC860P	♦MOTA	44- 25
IN11-1	CAM	101- 17	JK31	♦CLC	23- 45		SPR		MC71	MSC	84- 15	MC931G	♦MOTA	35- 51
IN11-3	CAM	101- 18	JK32	CLC	23- 46	LU333A	SIC	55- 73	MC72	MSC	84- 16	MC942F	♦MOTA	38- 56
IN12-1	CAM	101- 19	K11001	TSC	57- 46	LU334A	♦SIC	53- 96	MC73	MSC	84- 17	MC960F	♦MOTA	44- 23
IN12-2	CAM	101- 20	K11004	TSC	57- 47	LU337A	♦SIC	69- 40	MC74	MSC	84- 18	MC1001L	♦MOTA	56- 74
IN12H	ABA	72- 21	K11008	TSC	57- 48	LU356	♦SIC	111-100	MC75	MSC	84- 19	MC1002L	♦MOTA	56- 75
IN12L	ABA	72-110	K41001	TSC	57- 49	LU362A	♦SIC	92- 24	MC76	MSC	84- 20	MC1003L	♦MOTA	56- 76
IN12M	ABA	72- 22	K41008	TSC	57- 50	LU370A	SIC	59- 36	MC78	♦NCC	106- 40	MC1004L	♦MOTA	56- 77
IN12S	ABA	73- 1	K85401	♦NAP	112-108	LU374A	♦SIC	53- 97	MC130	HIS	40- 36	MC1005L	♦MOTA	56- 78
IN21-1	CAM	101-102	KG100M	WLD	40- 16	LU375A	♦SIC	53- 98	MC201F	♦MOTA	81- 29	MC1006L	♦MOTA	56- 79
IN22-1	CAM	101-103	KG1000H	WLD	40- 39	LU377A	♦SIC	69- 41	MC201G	♦MOTA	81- 30	MC1007L	♦MOTA	63- 98
IN22-2	CAM	101-104	L150AL	♦SIX	111- 60	LU380A	SIC	59- 37	MC202F	♦MOTA	81- 31	MC1008L	♦MOTA	63- 99
IN32-1	CAM	102- 49	L150CL	♦SIX	111- 61	LU384A	♦SIC	53- 99	MC202G	♦MOTA	81- 32	MC1009L	♦MOTA	63-100
IN32-2	CAM	102- 50	L151AL	♦SIX	111- 62	LU387A	♦SIC	69- 42	MC203F	♦MOTA	51- 79	MC1010L	♦MOTA	63-101
IN800	EMC	46- 85	L151CL	♦SIX	111- 63	M501	♦GECB	none	MC203G	♦MOTA	51- 80	MC1011L	♦MOTA	63-102
INN0202	♦EEC	73- 14	L11001	TSC	57- 51	Repl.by MB501 Cur.			MC204F	♦MOTA	81- 33	MC1012L	♦MOTA	63-103
INN0203	♦EEC	73- 15	L11004	TSC	57- 52	M502	♦GECB	none	MC204G	♦MOTA	81- 34	MC1013L	♦MOTA	26-106
INN0236	♦EEC	73- 16	L11008	TSC	57- 53	Repl.by MB502 Cur.			MC205F	♦MOTA	73- 70	MC1014L	♦MOTA	32- 28
INN0237	♦EEC	75- 72	L41001	TSC	57- 54	M503	♦GECB	none	MC205G	♦MOTA	73- 71	MC1015L	♦MOTA	32- 29
INN2202	♦EEC	73- 17	L41008	TSC	57- 55	Repl.by MB503 Cur.			MC206F	♦MOTA	81- 35	MC1016L	♦MOTA	32- 30
INN2203	♦EEC	73- 18	L51001A	INI	103- 52	M5803P	MITJ	108- 34	MC206G	♦MOTA	81- 36	MC1017L	♦MOTA	103- 57
INN2237	♦EEC	75- 73	L51002A	INI	103- 53	M6744	WAL	44- 87	MC207F	♦MOTA	81- 37	MC1018L	♦MOTA	103- 58
IO6H	ABA	54- 89	L51003A	INI	103- 28	M6784	WAL	44- 76	MC207G	♦MOTA	81- 38	MC1019L	♦MOTA	98- 9
IO6L	ABA	54- 90	L51004A	♦INI	103- 54	M6924	WAL	95- 20	MC208F	♦MOTA	81- 39	MC1020L	♦MOTA	110- 94
IO6M	ABA	54- 91	L51005A	♦INI	103- 55	M7233	WAL	44- 82	MC208G	♦MOTA	81- 40	MC1021L	♦MOTA	107- 33
IO12H	ABA	54- 92	L51010A	INI	103- 29	M8712	WAL	45- 6	MC209F	♦MOTA	34- 40	MC1022L	♦MOTA	38- 50
IO12L	ABA	54- 94	L51038A	INI	103- 18	M8742	WAL	44- 65	MC209G	♦MOTA	34- 41	MC1023L	♦MOTA	56- 81
IO12M	ABA	54- 93	L51039B	INI	103- 19	M9752	WAL	45- 10	MC212F	♦MOTA	81- 41	MC1024L	♦MOTA	56- 80
IO12S	ABA	54- 95	LC01	♦ADC	103- 36	M10022	WAL	42- 23	MC212G	♦MOTA	81- 42	MC1025L	♦MOTA	88- 71
IOS0223	♦EEC	93- 19	LC02	♦ADC	103- 37	M10132	WAL	42- 26	MC213F	♦MOTA	81- 43	MC1026L	♦MOTA	112- 70
IOS0224	♦EEC	93- 20	LC03	♦ADC	103- 15	M10493G	WAL	43- 2	MC213G	♦MOTA	81- 44	MC1027L	♦MOTA	27- 10
IOS2279	♦EEC	92- 52	LC335	♦HIS	103- 42	M10493S	WAL	43- 6	MC215F	♦MOTA	51- 81	MC1028L	♦MOTA	107- 34
IOS2282	♦EEC	92- 53	LC1102A	EMC	103- 38	M11001	TSC	57- 56	MC215G	♦MOTA	51- 82	MC1029L	♦MOTA	110- 95
IOS2283	EEC	92- 54	LC1102B	EMC	103- 39	M11004	TSC	57- 57	MC217F	♦MOTA	87- 71	MC1030L	♦MOTA	83- 99
IOS2284	♦EEC	92- 55	LC5301	♦TRC	99- 40	M11008	TSC	57- 58	MC217G	♦MOTA	87- 72	MC1031L	♦MOTA	83-106
IP1H	ABA	39- 22	LC5302	♦TRC	99- 41	M16701	TSC	60- 94	MC251F	MOTA	81- 45	MC1033L	♦MOTA	32- 31
IP1L	ABA	39- 24	LC5303	♦TRC	99- 42	M21514	WAL	45- 13	MC251G	♦MOTA	81- 46	MC1034L	♦MOTA	38- 54
IP1M	ABA	39- 23	LCE201	FERB	31- 31	M21524	WAL	45- 14	MC252F	MOTA	81- 47	MC1035L	MOTA	110- 92
IP1S	ABA	39- 25	LCE202	FERB	58- 93	M21564	WAL	45- 9	MC252G	♦MOTA	81- 48	MC1036L	MOTA	107- 35
IP2H	ABA	93- 21	LCE203	FERB	71- 76	M22594	WAL	45- 16	MC253F	MOTA	51- 83	MC1037L	MOTA	107- 36
IP2L	ABA	93- 22	LCE204	FERB	101- 88	JANM38510/00303BAB			MC253G	♦MOTA	51- 84	MC1038L	MOTA	107- 37
IP2M	ABA	93- 23	LCE205	FERB	39- 75		none	66- 54	MC254F	MOTA	73- 94	MC1039L	♦MOTA	107- 38
IP5AH	ABA	99- 34	LCE206	FERB	92-107	JANM38510/02003BCC			MC254G	♦MOTA	73- 95	MC1044	♦MOTA	46- 47
IP5AL	ABA	99- 35	LCE208	FERB	50- 43		NSC	66- 27	MC255F	MOTA	73- 72	MC1060S	MOTA	56- 73
IP5AM	ABA	99- 36	LCE209	FERB	54- 65	M41001	TSC	57- 59	MC255G	♦MOTA	73- 73	MC1062S	MOTA	76- 23
IP5BH	ABA	99- 37	LCE210	FERB	58- 94	M41008	TSC	57- 60	MC256F	MOTA	81- 49	MC1070S	MOTA	38- 55
IP5BL	ABA	99- 38	LCE211	FERB	104- 14	M46701	TSC	60- 95	MC256G	♦MOTA	81- 50	MC1111	MOTA	51-102
IP5BM	ABA	99- 39	LD1	CLC	104-101	M53246P	MITJ	47- 48	MC257F	MOTA	81- 51	MC1112	MOTA	51-103
IPD0206	♦EEC	73- 19	LD2	CLC	104-102	M53294P	MITJ	89- 41	MC257G	♦MOTA	81- 52	MC1113	MOTA	51-104
IPD0238	♦EEC	73- 20	LD3	CLC	104-103	M58202P	MITJ	97- 84	MC258F	MOTA	81- 53	MC1114	MOTA	51-105
IPD2238	♦EEC	73- 21	LD4	CLC	104-104	M58202S	MITJ	97- 85	MC258G	♦MOTA	81- 54	MC1115	MOTA	102- 66
IPG0258	♦EEC	109- 98	LD12-1	CAM	104- 94	M87421	WAL	44- 75	MC259F	MOTA	34- 42	MC1116	MOTA	87- 57
IPG0259	♦EEC	109- 99	LD22-1	CAM	104- 95	MA01	AMI	58- 76	MC259G	♦MOTA	34- 43	MC1117	MOTA	87- 58
IPG0260	♦EEC	109-100	LD30	♦HIS	104-108			109- 65	MC260F	MOTA	34- 44	MC1118	MOTA	106-100
IPG0261	♦EEC	109-101	LD31	♦CLC	105- 12	MA03	GECB	111- 24	MC260G	♦MOTA	34- 45	MC1124L	♦MOTA	109- 44
IPG2258	♦EEC	109-102	LD330	♦HIS	104-110	MA17	♦GECB	46- 52	MC262F	MOTA	81- 55	MC1124P	MOTA	95- 16
IPG2259	♦EEC	109-103	LD331	♦HIS	104-106	MA20	♦GECB	45- 5	MC262G	♦MOTA	81- 56	MC1125G	♦MOTA	37- 91
IPG2260	♦EEC	109-104	LD335	♦HIS	103- 43	MA24	♦GECB	107- 32	MC263F	MOTA	81- 57	MC1170L	♦MOTA	108- 35
IPG2261	♦EEC	109-105	LD5305	♦TRC	104-105	MA31-62	WBC	101- 7	MC263G	♦MOTA	81- 58	MC1246P	♦MOTA	107- 39
IPG2267	♦EEC	48- 5	LMD9	♦LED	102- 70	MA/031-62	WBC	53- 63	MC265F	MOTA	51- 85	MC1265L	♦MOTA	112- 31
IR5H	ABA	106- 45	LMD10	♦LED	102- 71	MB01	AMI	109- 43	MC265G	♦MOTA	51- 86	MC1440P	♦MOTA	111- 70
IR5L	ABA	106- 46	LMD70	♦LED	106- 76	MB501	♦GECB	56- 40	MC267F	MOTA	87- 73	MC1446L	♦MOTA	111- 71
IR5M	ABA	106- 47	LN30	♦HIS	96- 87	MB502	♦GECB	56- 41	MC267G	♦MOTA	87- 74	MC1511	MOTA	103- 56
IRC9003	♦EEC	108- 61	LN30A	♦HIS	96- 88	MB503	♦GECB	56- 42	MC281G	MOTA	73- 78	MC1511G	MOTA	102- 72
IRD0242	♦EEC	105-110	LN330	♦HIS	96- 89	MB504	♦GECB	56- 43	MC282G	MOTA	31- 92	MC1540P	♦MOTA	111- 72
IRS0216	♦EEC	31- 64	LP01A	♦AMI	31- 12	MB505	♦GECB	56- 38	MC284G	MOTA	73- 79	MC1546L	♦MOTA	111- 73
IRS0222	♦EEC	31- 65	LP02A	♦AMI	58- 21	MC1	CLC	39- 54	MC335	♦HIS	40-101	MC1580L	♦MOTA	111-104
IRS2216	♦EEC	31- 66	LP03A	♦AMI	58- 22	MC1A	CLC	39- 77	MC340	♦HIS	40- 83	MC1581L	♦MOTA	112- 32
IRS2222	♦EEC	31- 67	LP04A	♦AMI	31- 13	MC1AX	CLC	40-100	MC352F	MOTA	32- 23	MC1582L	♦MOTA	111-105
IRS9002	♦EEC	108- 62	LP05A	♦AMI	58- 23	MC1X	CLC	40- 94	MC352G	MOTA	32- 24	MC1583L	♦MOTA	112- 33
ISD0240	♦EEC	106- 12	LP06A	♦AMI	58- 24	MC02	♦NCC	32-104	MC417F	♦MOTA	21- 99	MC1584L	♦MOTA	112- 34

D.A.T.A.

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK

△-Registered with JEDEC by this manufacturer

Obs-In this book

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
MC2008F	♦MOTA	100- 6	MEM3100AF	♦GIC	90- 48	MIC360-3A	ITT	61- 88	MMG42	GECB	68- 87	MMG253#1	GECB	55- 88
MC2008L	♦MOTA	100- 7	MEM3100C	♦GIC	90- 49	MIC360-3B	ITT	61- 89	MMG43	GECB	68- 88	MMG253#2	GECB	55- 89
MC2008P	♦MOTA	100- 8	MEM3100F	♦GIC	90- 50	MIC360-3C	ITT	61- 90	MMG50#1	GECB	55- 24	MMG260#1	GECB	82- 82
MC2009F	♦MOTA	25- 71	MEM3128-2	♦GIC	89-106	MIC370-1A	ITT	82- 99	MMG50#2	GECB	55- 25	MMG260#2	GECB	82- 83
MC2009L	♦MOTA	25- 72	MEM3128-2F	♦GIC	89-107	MIC370-1B	ITT	82-100	MMG51#1	GECB	55- 26	MMG261#1	GECB	82- 84
MC2009P	MOTA	24- 66	MEM3128C	♦GIC	90- 51	MIC370-1C	ITT	82-101	MMG51#2	GECB	55- 27	MMG261#2	GECB	82- 85
MC2010F	♦MOTA	25- 73	MEM3128F	♦GIC	90- 52	MIC370-2A	ITT	82-102	MMG52	GECB	60- 48	MMG262#1	GECB	82- 86
MC2010L	♦MOTA	25- 74	MEM4090	GIC	89- 91	MIC370-2B	ITT	82-103	MMG53	GECB	60- 49	MMG262#2	GECB	82- 87
MC2010P	MOTA	24- 67	MEM5001	GIC	107- 41	MIC370-2C	ITT	82-104	MMG60#1	GECB	82- 10	MMG263#1	GECB	82- 88
MC2058F	♦MOTA	100- 9	MEM5002	GIC	107- 42	MIC370-3A	ITT	82-105	MMG60#2	GECB	82- 11	MMG263#2	GECB	82- 89
MC2058L	♦MOTA	100- 10	MEM5003	GIC	107- 43	MIC370-3B	ITT	82-106	MMG61#1	GECB	82- 12	MMG270#1	GECB	88- 59
MC2058P	♦MOTA	100- 11	MEM5004	GIC	107- 44	MIC370-3C	ITT	82-107	MMG61#2	GECB	82- 13	MMG270#2	GECB	88- 60
MC2059F	♦MOTA	25- 75	MEM5005	GIC	107- 45	MIC931	ITT	27- 12	MMG62	GECB	68- 89	MMG271#1	GECB	88- 61
MC2059L	♦MOTA	25- 76	MEM5006	GIC	107- 46	MIC1890	ITTB	32- 38	MMG63	GECB	68- 90	MMG271#2	GECB	88- 62
MC2059P	MOTA	24- 68	MEM5007	GIC	107- 47	MIC5441BJ	ITTB	46- 74	MMG72	GECB	60- 50	MMG272#1	GECB	88- 63
MC2060F	♦MOTA	25- 77	MEM5014	♦GIC	95- 53	MIC6441BJ	ITTB	46- 75	MMG73	GECB	60- 51	MMG272#2	GECB	88- 64
MC2060L	♦MOTA	25- 78	MEM5015	♦GIC	96- 53	MIC7441BJ	ITTB	46- 76	MMG90#1	GECB	83- 90	MMG273#1	GECB	88- 65
MC2060P	MOTA	24- 69	MEM5048	♦GIC	43- 25	MIDA42001	♦MPI	95-107	MMG90#2	GECB	83- 91	MMG273#2	GECB	88- 66
MC2109F	♦MOTA	25- 79	MEM5116	♦GIC	95- 17	MIDA42002	♦MPI	95-108	MMG91#1	GECB	83- 92	MMLI2001	SSE	102- 55
MC2109L	♦MOTA	25- 80	MEM5132	♦GIC	108- 42	MIDA42003	♦MPI	95-109	MMG91#2	GECB	83- 93	MMSC2002	SSE	51- 76
MC2110F	♦MOTA	25- 81	MF20	♦HIS	35- 70	MIDA42004	♦MPI	95-110	MMG92	GECB	83- 17	MMSG2006	SSE	87- 70
MC2110L	♦MOTA	25- 82	MF30	♦HIS	35- 97	MIDA42005	♦MPI	96- 1	MMG93	GECB	83- 18	MN130	♦MATJ	110- 97
MC2116P	♦MOTA	100- 12	MF35	♦HIS	36- 10	MIDA42006	♦MPI	96- 2	MMG100#1	GECB	55- 28	MN201	♦MNC	96- 94
MC2159F	♦MOTA	25- 83	MFF31-62	WBC	33- 63	MIDA42007	♦MPI	96- 3	MMG100#2	GECB	55- 29	MOS31-62	WBC	91- 68
MC2159L	♦MOTA	25- 84	MG31-62	WBC	48-109	MIDA42008	♦MPI	96- 4	MMG101#1	GECB	55- 30	MOSES8	ANA	106- 70
MC2160F	♦MOTA	25- 85	MHQ3725	♦MOTA	113- 54	MIDA42011	♦MPI	96- 5	MMG101#2	GECB	55- 31	MP102	PLSB	70- 35
MC2160L	♦MOTA	25- 86	MHQ5859	♦MOTA	113- 55	MIDA42012	♦MPI	96- 6	MMG102	GECB	60- 52	MP103	PLSB	52- 39
MC2166P	♦MOTA	100- 13	MIC300-1A	ITT	21- 19	MIDA42013	♦MPI	96- 7	MMG103	GECB	60- 53	MP104	PLSB	58- 25
MC2501L	♦MOTA	58- 26	MIC300-1B	ITT	21- 20	MIDA42014	♦MPI	96- 8	MMG110#1	GECB	55- 32	MP105	PLSB	52- 40
MC2502L	♦MOTA	58- 27	MIC300-1C	ITT	21- 21	MIDA42015	♦MPI	96- 9	MMG110#2	GECB	55- 33	MP106	PLSB	37- 25
MC2503L	♦MOTA	38- 35	MIC300-2A	ITT	21- 22	MIDA42016	♦MPI	96- 10	MMG111#1	GECB	55- 34	MP224	PLSB	89-109
MC2597G	♦MOTA	70- 39	MIC300-2B	ITT	21- 23	MIDA42017	♦MPI	96- 11	MMG111#2	GECB	55- 35	MPX10W	ANA	106- 71
MC2598G	♦MOTA	38- 28	MIC300-2C	ITT	21- 24	MIDA42018	♦MPI	96- 12	MMG112	GECB	60- 54	MS02	♦NCC	31- 18
MC7405F	♦MOTA	100- 14	MIC300-3A	ITT	21- 25	MIHD42030	♦MPI	112- 98	MMG113	GECB	60- 55	MS03	♦NCC	31- 19
MC7441P	♦MOTA	46- 86	MIC300-3B	ITT	21- 26	ML105RA	WTI	98- 81	MMG120#1	GECB	82- 14	MS07	♦NCC	31- 20
MC9760P	♦MOTA	46- 72	MIC300-3C	ITT	21- 27	ML105RB	WTI	98- 82	MMG120#2	GECB	82- 15	MS08	♦NCC	37- 27
MC9860P	♦MOTA	46- 73	MIC305-1A	ITT	91- 22	ML105TA	WTI	98- 83	MMG121#1	GECB	82- 16	MS10	♦NCC	44- 42
MC14001L	♦MOTA	58- 28	MIC305-1B	ITT	91- 23	ML105TB	WTI	98- 84	MMG121#2	GECB	82- 17	MS12	♦NCC	42- 76
MC14002L	♦MOTA	58- 29	MIC305-1C	ITT	91- 24	ML107RA	WTI	98- 85	MMG122	GECB	68- 91	MS12N	♦NCC	44- 43
MC14011L	♦MOTA	70- 40	MIC305-2A	ITT	91- 25	ML107TA	WTI	98- 86	MMG123	GECB	68- 92	MS14	♦NCC	42- 67
MC14012L	♦MOTA	53-100	MIC305-2B	ITT	91- 26	ML108RC	WTI	98- 87	MMG130#1	GECB	82- 18	MS15	♦NCC	44- 44
MC14013L	♦MOTA	38- 29	MIC305-2C	ITT	91- 27	ML108TC	WTI	98- 88	MMG130#2	GECB	82- 19	MS16	♦NCC	32-100
MC14507L	♦MOTA	83- 32	MIC305-3A	ITT	91- 28	ML6400#1	MSC	64- 23	MMG131#1	GECB	82- 20	MS18	♦NCC	89- 62
MC54450P	♦MOTA	42- 62	MIC305-3B	ITT	91- 29	ML6400#2	MSC	64- 24	MMG131#2	GECB	82- 21	MS30	♦HIS	99- 17
MC55109L	♦MOTA	111-106	MIC305-3C	ITT	91- 30	ML6400#3	MSC	64- 25	MMG132	GECB	68- 93	MS40	♦NCC	47- 17
MC55110L	♦MOTA	111-107	MIC310-1A	ITT	75- 86	ML6410#1	MSC	56- 83	MMG133	GECB	68- 94	MS48	♦NCC	109- 60
MCH1002P	♦MOTA	112- 96	MIC310-1B	ITT	75- 87	ML6410#2	MSC	56- 84	MMG140	GECB	68-108	MS50	♦NCC	39- 9
MCH2890R	♦MOTA	112- 97	MIC310-1C	ITT	75- 88	ML6410#3	MSC	56- 85	MMG141	GECB	68-109	MS50X	♦NCC	40- 37
MCX	CLC	40- 96	MIC310-2A	ITT	75- 89	ML6420#1	MSC	64- 26	MMG142	GECB	68- 95	MS51	♦NCC	92-100
MD1	♦CLC	46- 23	MIC310-2B	ITT	75- 90	ML6420#2	MSC	64- 27	MMG143	GECB	68- 96	MS60	♦NCC	101- 80
MD1A	♦CLC	46- 31	MIC310-2C	ITT	75- 91	ML6420#3	MSC	64- 28	MMG150#1	GECB	88- 1	MS61	♦NCC	101- 81
MD2	♦CLC	46- 35	MIC310-3A	ITT	75- 92	ML6430#1	MSC	64- 29	MMG150#2	GECB	88- 2	MS62	♦NCC	75- 80
MD21	CLC	46- 20	MIC310-3B	ITT	75- 93	ML6430#2	MSC	64- 30	MMG151#1	GECB	88- 3	MS63	♦NCC	82- 97
MD31	♦CLC	46- 36	MIC310-3C	ITT	75- 94	ML6430#3	MSC	64- 31	MMG151#2	GECB	88- 4	MS64	♦NCC	75- 81
MDA8F	♦ANA	108- 79	MIC311-1A	ITT	75- 95	MM111	TRC	70- 75	MMG152	GECB	86- 80	MS66	♦NCC	82- 98
MDA8FET	♦ANA	106- 68	MIC311-1B	ITT	75- 96	MM111B	TRC	75- 45	MMG153	GECB	86- 81	MS76	♦NCC	106- 41
MDA8LB	ANA	95- 97	MIC311-1C	ITT	75- 97	MM112	TRC	70- 76	MMG162	GECB	64-106	MS78	♦NCC	106- 42
MDA8LD	ANA	95- 98	MIC311-2A	ITT	75- 98	MM211	TRC	70-107	MMG163	GECB	64-107	MSSH	♦DAD	108- 81
MDA8UB	ANA	95- 99	MIC311-2B	ITT	75- 99	MM211B	TRC	75- 46	MMG170#1	GECB	88- 5	MV2M	♦SCI	39- 41
MDA8UD	ANA	95-100	MIC311-2C	ITT	75-100	MM212	TRC	70-108	MMG170#2	GECB	88- 6	MV2Z	♦SCI	39- 39
MDA10F	♦ANA	108- 80	MIC311-3A	ITT	75-101	MM311	TRC	71- 8	MMG171#1	GECB	88- 7	MV30	♦HIS	92- 96
MDA10FET	♦ANA	106- 69	MIC311-3B	ITT	75-102	MM311B	TRC	75- 47	MMG171#2	GECB	88- 8	MV35	♦HIS	93- 26
MDA10LB	ANA	95-101	MIC311-3C	ITT	75-103	MM312	TRC	71- 9	MMG172	GECB	86- 82	MV130	HIS	92- 99
MDA10UB	ANA	95-102	MIC320-1A	ITT	56- 55	MM411	TRC	73- 53	MMG173	GECB	86- 83	MV210	TRC	39- 52
MDA12LB	ANA	95-103	MIC320-1B	ITT	56- 56	MM411B	TRC	75- 48	MMG180#1	GECB	88- 9	MV310	TRC	39- 57
MDA12LD	ANA	95-104	MIC320-1C	ITT	56- 57	MM412	TRC	73- 54	MMG180#2	GECB	88- 10	MV335	♦HIS	40- 8
MDA12UB	ANA	95-105	MIC320-2A	ITT	56- 58	MM413	♦NSC	89- 55	MMG181#1	GECB	88- 11	MV340	♦HIS	39- 16
MDA12UD	ANA	95-106	MIC320-2B	ITT	56- 59	MM420	♦NSC	111- 54	MMG181#2	GECB	88- 12	MV410	TRC	39- 89
MEM501	GIC	89- 80	MIC320-2C	ITT	56- 60	MM513	♦NSC	89- 56	MMG182	GECB	84- 63	MV601	♦CEQ	39- 26
MEM501F	GIC	89- 81	MIC320-3A	ITT	56- 61	MM520	♦NSC	111- 55	MMG183	GECB	84- 64	MV701	♦CEQ	39- 27
MEM507	GIC	89- 51	MIC320-3B	ITT	56- 62	MM10333	WAL	43-105	MMG190#1	GECB	81- 59	MV801	♦CEQ	39- 28
MEM521	GIC	89- 90	MIC320-3C	ITT	56- 63	MM10343	WAL	37- 96	MMG190#2	GECB	81- 60	MV901	♦CEQ	39- 29
MEM522	GIC	61- 40	MIC330-1A	ITT	61- 64	MM10383	WAL	51- 71	MMG191#1	GECB	81- 61	MV1514B	INI	40- 9
MEM522F	GIC	61- 41	MIC330-1B	ITT	61- 65	MM10383D	WAL	51- 72	MMG191#2	GECB	81- 62	MWuL908	FSC	97- 30
MEM529	GIC	33- 89	MIC330-1C	ITT	61- 66	MM10413	WAL	102- 51	MMG192	GECB	68- 97		SGAI	
MEM530	GIC	31- 16	MIC330-2A	ITT	61- 67	MM10413D	WAL	102- 52	MMG193	GECB	68- 98	MWuL909	FSC	62- 47
MEM901	GIC	75- 65	MIC330-2B	ITT	61- 68	MM10423	WAL	54-105	MMG210#1	GECB	55- 74		SGAI	
MEM901F	GIC	75- 66	MIC330-2C	ITT	61- 69	MM10423D	WAL	54-106	MMG210#2	GECB	55- 75	MWuL910	FSC	62- 48
MEM1000	♦GIC	97- 86	MIC330-3A	ITT	61- 70	MM10433	WAL	93- 34	MMG211#1	GECB	55- 76		SGAI	
MEM1002	♦GIC	58- 74	MIC330-3B	ITT	61- 71	MM10443	WAL	31-101	MMG211#2	GECB	55- 77	MWuL911	FSC	62- 49
MEM1005	♦GIC	33- 80	MIC330-3C	ITT	61- 72	MM10833	WAL	101- 82	MMG212#1	GECB	55- 78		SGAI	
MEM1008	♦GIC	83-105	MIC331-1A	ITT	61- 73	MM10863	WAL	92-106	MMG212#2	GECB	55- 79	MWuL912	FSC	98- 25
MEM1013	♦GIC	58- 44	MIC331-1B	ITT	61- 74	MM10873	WAL	31- 29	MMG213#1	GECB	55- 80		SGAI	
MEM1014	♦GIC	48- 85	MIC331-1C	ITT	61- 75	MM10883	WAL	50- 26	MMG213#2	GECB	55- 81	MWuL913	FSC	36- 15
MEM1015	♦GIC	22- 64	MIC331-2A	ITT	61- 76	MM10893	WAL	52- 35	MMG220#1	GECB	82- 66		SGAI	
MEM1022	♦GIC	108- 36	MIC331-2B	ITT	61- 77	MM10903	WAL	50- 27	MMG220#2	GECB	82- 67	MWuL921	FSC	85- 49
MEM1050	♦GIC	43- 8	MIC331-2C	ITT	61- 78	MM10913	WAL	50- 28	MMG221#1	GECB	82- 68		SGAI	
MEM1050B	♦GIC	44- 21	MIC331-3A	ITT	61- 79	MM10923	WAL	50- 29	MMG221#2	GECB	82- 69	MX01C	♦AMI	108- 43
MEM1051	♦GIC	96- 70	MIC331-3B	ITT	61- 80	MM10933	WAL	43- 41	MMG222#1	GECB	82- 70	MX30	HIS	109-110
MEM1055	♦GIC	44- 22	MIC331-3C	ITT	61- 81	MM14433	WAL	104- 96	MMG222#2	GECB	82- 71	N8H20J	SIC	27- 6
MEM2001	GIC	107- 40	MIC340-1A	ITT	56- 64	MMAO2003	SSE	51- 77	MMG223#1	GECB	82- 72	N8H21J	SIC	27- 7
MEM2002	♦GIC	108- 37	MIC340-1B	ITT	56- 65	MMAO2005	SSE	51- 78	MMG223#2	GECB	82- 73	N8H22J	SIC	26- 34
MEM2003	♦GIC	108- 38	MIC340-1C	ITT	56- 66	MMCA2004	SSE	51- 75	MMG230#1	GECB	88- 51	N26L	WLD	58- 50
MEM2004	♦GIC	108- 39	MIC340-2A	ITT	56- 67	MMD12	TRC	70- 72	MMG230#2	GECB	88- 52	N35L	WLD	58- 51
MEM2005	♦GIC	108- 40	MIC340-2B	ITT	56- 68	MMF50	GECB	24- 50	MMG231#1	GECB	88- 53	N44L	WLD	58- 52
MEM2006	♦GIC	108- 41	MIC340-2C	ITT	56- 69	MMF51	GECB	24- 51	MMG231#2	GECB	88- 54	N100	♦EEC	42- 9
MEM2008	♦GIC	96- 52	MIC340-3A	ITT	56- 70	MMF52	GECB	24- 52	MMG232#1	GECB	88- 55	N101	♦EEC	42- 10
MEM3005PP	♦GIC	89- 21	MIC340-3B	ITT	56- 71	MMF53	GECB	24- 53	MMG232#2	GECB	88- 56	N102	♦EEC	42- 88
MEM3005SP	♦GIC	89- 54	MIC340-3C	ITT	56- 72	MMF60	GECB	28- 73	MMG233#1	GECB	88- 57	N103	♦EEC	42- 89
MEM3016-2	♦GIC	89- 92	MIC350-1A	ITT	99- 55	MMF61	GECB	28- 74	MMG233#2	GECB	88- 58	N104	♦EEC	42- 11
MEM3020	♦GIC	89- 93	MIC350-1B	ITT	99- 56	MMF62	GECB	28- 75	MMG240#1	GECB	82- 74	N105	♦EEC	42- 90
MEM3032	♦GIC	89- 94	MIC350-1C	ITT	99- 57	MMF63	GECB	28- 76	MMG240#2	GECB	82- 75	N106	♦EEC	42- 91
MEM3032D2C	♦GIC	90- 53	MIC350-2A	ITT	99- 58	MMF250	GECB	28-105	MMG241#1	GECB	82- 76	N109	♦EEC	42- 49
MEM3032D2F	♦GIC	90- 54	MIC350-2B	ITT	99- 59	MMF251	GECB	28-106	MMG241#2	GECB	82- 77	N110	♦EEC	42- 96
MEM3032D5C	♦GIC	90- 56	MIC350-2C	ITT	99- 60	MMF252	GECB	28-107	MMG242#1	GECB	82- 78	N111	♦EEC	42- 12
MEM3032D5F	♦GIC	90- 57	MIC350-3A	♦ITT	99- 61	MMF253	GECB	28-108	MMG242#2	GECB	82- 79	N112	♦EEC	42- 92
MEM3050	♦GIC	89- 82	MIC350-3B	♦ITT	99- 62	MMF260	GECB	28-109	MMG243#1	GECB	82- 80	N113	♦EEC	42- 13
MEM3064-2B	♦GIC	90- 55	MIC350-3C	♦ITT	99- 63	MMF261	GECB	28-110	MMG243#2	GECB	82- 81	N114	♦EEC	42- 14
MEM3064LR	♦GIC	90- 15	MIC360-1A	ITT	61- 82	MMF262	GECB	29- 1	MMG250#1	GECB	55- 82	N118	♦EEC	42- 15
MEM3064S	♦GIC	90- 16	MIC360-1B	ITT	61- 83	MMF263	GECB	29- 2	MMG250#2	GECB	55- 83	N119	♦EEC	42- 16
MEM3064SC	♦GIC	90- 17	MIC360-1C	ITT	61- 84	MMG40#1	GECB	82- 6	MMG251#1	GECB	55- 84	N120	♦EEC	42- 17
MEM3100	GIC	89-108	MIC360-2A	ITT	61- 85	MMG40#2	GECB	82- 7	MMG251#2	GECB	55- 85	N121	EEC	42-102
MEM3100A2	♦GIC	89-105	MIC360-2B	ITT	61- 86	MMG41#1	GECB	82- 8	MMG252#1	GECB	55- 86	N121A	EEC	42- 93
MEM3100AC	♦GIC	90- 47	MIC360-2C	ITT	61- 87	MMG41#2	GECB	82- 9	MMG252#2	GECB	55- 87	N123	♦EEC	42- 97

♦-Copy of mfr's data sheet
may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
Obs-In this book
∆-Registered with JEDEC by this manufacturer

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
N124	♦EEC	46-107	NC1010	NSC	80-91	NE480J	♦SIC	68-103	NN5209	♦TRC	73-36	P11008	TSC	36-87
N127	♦EEC	42-18	NC1011	NSC	80-86		SPR		NO11-1	CAM	58-62	P41001	TSC	36-88
N128	♦EEC	42-86	NC1012	NSC	98-63	NE481J	SIC	65-38	NO11-2	CAM	58-63	P41008	TSC	36-89
N129	EEC	44-107	NC1013	NSC	89-68	NE525A	♦SIC	111-74	NO12-1	CAM	58-64	PA336	♦HIS	80-85
N130	♦EEC	46-108	NC1021	NSC	63-33	NE525J	♦SIC	111-75	NO21-1	CAM	59-4	PA494	♦GESY	none
N131	♦EEC	42-87	NC2008	NSC	97-103	NE528B	♦SIC	111-76	NO21-2	CAM	59-5	Repl.by GEL1494AD Obs.		
N134	♦EEC	42-94	NC2009	NSC	102-65	NE806A	SPR	88-42	NO22-1	CAM	59-6	PC8	GIC	34-81
N135	♦EEC	42-19	NC2010	NSC	80-87	NE806J	SIC	84-67	NOR2M	♦SCI	58-75	PC9	GIC	110-34
N136	♦EEC	42-20	NC2011	NSC	80-88		SPR		NOR2Z	♦SCI	58-86	PC10	GIC	73-89
N137	♦EEC	42-28	NC2012	NSC	98-64	NE808A	SPR	74-63	NOR4	SCI	58-53	PC11	GIC	73-92
N138	♦EEC	42-21	NC2013	NSC	89-69	NE808J	SIC	68-78	NP22-1	CAM	103-41	PC13	GIC	34-82
N401	♦EEC	44-108	NC2021	NSC	63-34		SPR		NS700G	♦SIC	80-13	PC14	GIC	73-90
N402	♦EEC	44-106	NC3008	NSC	97-104	NE816A	SPR	74-64	NS700K	♦SIC	80-14	PC15	GIC	73-93
N403	♦EEC	44-109	NC3009	NSC	95-3	NE816J	SIC	68-79	NS701G	♦SIC	80-15	PC16	GIC	93-37
N501	♦EEC	95-67	NC3010	NSC	80-89		SPR		NS701K	♦SIC	80-16	PC17	GIC	104-34
N502	♦EEC	95-68	NC3011	NSC	80-90	NE825A	SPR	29-3	NS704G	SIC	33-86	PC18	GIC	93-38
N503	♦EEC	95-69	NC3012	NSC	98-65	NE825J	SIC	27-64	NS704K	SIC	33-87	PC19	GIC	39-2
N504	♦EEC	95-70	NC3013	NSC	89-70		SPR		NS705G	SIC	84-72	PC401	♦GIC	96-58
N505	♦EEC	95-71	NC3021	NSC	63-35	NE826A	SPR	27-55	NS705K	SIC	84-73	PC402	♦GIC	96-59
N506	♦EEC	95-72	ND01	♦VDM	47-62	NE826J	SIC	27-56	NS709G	SIC	84-74	PC403	♦GIC	96-23
N507	♦EEC	95-73	ND1	CLC	46-55		SPR		NS709K	SIC	84-75	PC607	GIC	99-11
N7402J	SIC	61-97	ND2	CLC	105-56	NE840A	SPR	83-33	NS715K	SIC	67-104	PC608	GIC	99-12
N7440J	SIC	64-34	ND2Z	♦SCI	105-63	NE840J	SIC	83-15	NS716K	SIC	67-105	PC806	♦EMC	83-56
N8280J	♦SIC	44-99	ND31	♦HIS	105-22		SPR		NS720J	SIC	67-101	PC906	EMC	83-98
N8281J	♦SIC	44-19	ND101	♦CEQ	105-41	NE855A	SPR	74-65	NS721J	SIC	67-102	PD1	CLC	106-1
N11001	TSC	57-61	ND102	♦CEQ	105-42	NE855J	SIC	68-80	NS727J	SIC	67-103	PD2	CLC	106-2
N11004	TSC	57-62	ND254	TRC	105-64		SPR		NS729J	SIC	33-88	PD31	♦CLC	106-13
N11008	TSC	57-63	ND255	TRC	105-65	NE855K	SIC	66-67	NS730J	SIC	86-22	PD141	♦CEQ	105-77
N41001	TSC	57-64	ND330	♦HIS	47-52	NE870A	SPR	74-66	NS731J	SIC	84-76	PD455	♦GESY	110-98
N41008	TSC	57-65	ND331	♦HIS	47-53	NE870J	SIC	68-81	NS732J	SIC	84-77	PD460	♦GESY	111-2
NA11-1	CAM	70-92	ND5306	TRC	105-66		SPR		NS7673	NSC	105-67	PD470	GESY	110-99
NA11-2	CAM	70-93	NE101G	♦SIC	79-108	NE880A	SPR	74-67	NS8000	NSC	109-66	PD474	GESY	110-100
NA12-1	CAM	70-94	NE101K	♦SIC	79-109	NE880J	SIC	68-82	NS8003	NSC	108-107	PD487	♦GESY	110-103
NA21-1	CAM	72-4	NE102G	♦SIC	79-110		SPR		NT10	XDS	99-50	PD496	♦GESY	112-35
NA21-2	CAM	72-5	NE102K	♦SIC	80-1	NE8162A	SPR	92-25	NT11	XDS	99-51	PD497	♦GESY	111-108
NA22-1	CAM	72-6	NE105G	♦SIC	84-65	NE8162J	SPR	92-26	NT17	XDS	99-18	PD500	♦GESY	110-104
NAND2M	♦SCI	71-64	NE105K	♦SIC	84-66	NE8280A	SPR	44-95	NT18	XDS	99-52	PD501	GESY	110-101
NAND2Z	♦SCI	71-45	NE106A	♦SIC	86-77	NE8280J	SPR	44-96	NX10	XDS	99-7	PD502	GESY	56-14
NAND4	SCI	70-77		SPR		NE8281A	SPR	44-13	NX11	XDS	99-8	PD503	GESY	83-43
NB1000	NSC	102-61	NE106J	♦SIC	86-78	NE8281J	SPR	44-14	NX50	XDS	99-43	PD545	GESY	109-32
NB1001	NSC	45-17		SPR		NE8415A	SPR	64-98	NX51	XDS	99-44	PD7400	♦PHIL	66-68
NB1002	NSC	21-16	NE110G	♦SIC	80-28	NE8415J	SPR	64-99	O11001	TSC	91-101	PD7401	♦PHIL	66-69
NB1003	NSC	83-67	NE110K	♦SIC	80-29	NE8416A	SPR	69-55	O11004	TSC	91-102	PD7402	♦PHIL	58-3
NB1004	NSC	98-78	NE111J	SIC	67-99	NE8416J	SPR	69-56	O11008	TSC	91-103	PD7403	PHIL	66-70
NB1005	NSC	21-13	NE112A	♦SIC	80-2	NE8417A	SPR	64-100	O12001	TSC	92-22	PD7404	♦PHIL	100-16
NB1007	NSC	83-68		SPR		NE8417J	SPR	64-101	O42001	TSC	92-23	PD7405	♦PHIL	100-17
NB1014	NSC	83-69	NE112J	♦SIC	80-3	NE8424A	SPR	33-110	OB1104	EMC	40-55	PD7410	♦PHIL	66-71
NB1015	NSC	83-70		SPR		NE8424J	SPR	34-1	OC5404	♦TRC	44-34	PD7420	♦PHIL	66-72
NB1016	NSC	23-89	NE113K	♦SIC	80-4	NE8440A	SPR	60-88	OC5405	TRC	44-35	PD7430	♦PHIL	66-73
NB1017	NSC	83-71	NE115G	♦SIC	80-5	NE8440J	SPR	60-89	OD20	♦HIS	46-22	PD7440	♦PHIL	66-74
NB1018	NSC	33-23	NE115K	♦SIC	80-6	NE8455A	SPR	79-79	OD30	♦HIS	46-29	PD7441A	♦PHIL	46-77
NB1019	NSC	32-64	NE116A	♦SIC	80-7	NE8455J	SPR	79-80	OD35	♦HIS	46-37	PD7442	♦PHIL	46-78
NB1020	NSC	33-16		SPR		NE8470A	SPR	79-81	OD335	♦HIS	47-29	PD7445	♦PHIL	46-79
NB1023	NSC	32-65	NE116J	♦SIC	80-8	NE8470J	SPR	79-82	OD5414	TRC	47-51	PD7450	♦PHIL	59-95
NB2000	NSC	102-62		SPR		NE8471A	SPR	75-106	OG11-1	CAM	54-6	PD7451	♦PHIL	59-96
NB2001	NSC	45-18	NE124A	♦SIC	34-72	NE8471J	SPR	75-107	OG11-2	CAM	54-7	PD7453	♦PHIL	59-97
NB2002	NSC	21-17		SPR		NE8480A	SPR	79-83	OG11-3	CAM	54-8	PD7454	♦PHIL	59-98
NB2003	NSC	83-72	NE124G	♦SIC	34-73	NE8480J	SPR	79-84	OG12-1	CAM	54-9	PD7460	♦PHIL	85-95
NB2004	NSC	98-79	NE124J	♦SIC	34-74	NE8481A	SPR	75-108	OG12-2	CAM	54-10	PD7470	♦PHIL	28-79
NB2005	NSC	21-14		SPR		NE8481J	SPR	75-109	OG13-1	CAM	54-11	PD7472	♦PHIL	28-61
NB2007	NSC	83-73	NE124K	♦SIC	34-75	NE8731A	SPR	84-68	OG14-1	CAM	54-12	PD7473	♦PHIL	23-98
NB2014	NSC	83-74		SPR		NE8731J	SPR	84-69	OG21-1	CAM	54-77	PD7474	♦PHIL	38-39
NB2015	NSC	83-75	NE125A	♦SIC	30-7	NE8806A	SPR	84-70	OG21-2	CAM	54-78	PD7475	♦PHIL	38-11
NB2016	NSC	23-90		SPR		NE8806J	SPR	84-71	OG21-3	CAM	54-79	PD7476	♦PHIL	23-99
NB2017	NSC	83-76	NE125J	SIC	30-8	NE8808A	SPR	78-58	OG22-1	CAM	54-80	PD7482	♦PHIL	97-31
NB2018	NSC	33-24		SPR		NE8808J	SPR	78-59	OG22-2	CAM	54-81	PD7483	♦PHIL	97-32
NB2019	NSC	32-66	NE150G	♦SIC	69-74	NE8816A	SPR	78-60	OG23-1	CAM	54-82	PD7486	PHIL	83-14
NB2020	NSC	33-17	NE150K	♦SIC	69-75	NE8816J	SPR	78-61	OG24-1	CAM	54-83	PD7490	♦PHIL	42-82
NB2023	NSC	32-67	NE155J	SIC	67-100	NE8825A	SPR	27-59	OG31-1	CAM	54-107	PD7491A	PHIL	90-58
NB3000	NSC	102-63	NE156A	♦SIC	69-68	NE8825J	SPR	27-60	OG31-2	CAM	54-108	PD7493	♦PHIL	44-50
NB3001	NSC	45-19		SPR		NE8826A	SPR	27-45	OG32-2	CAM	54-109	PD7494	PHIL	89-42
NB3002	NSC	21-18	NE156J	♦SIC	69-69	NE8826J	SPR	27-46	OMY100	MULB	62-87	PD7495	PHIL	90-72
NB3003	NSC	83-77		SPR		NE8828A	SPR	91-48	OMY101	♦MULB	111-4	PD7496	PHIL	90-73
NB3004	NSC	95-1	NE157K	♦SIC	69-70	NE8828J	SPR	91-49	OMY102	MULB	109-70	PD9093-51	♦PHIL	22-12
NB3005	NSC	21-15	NE160G	♦SIC	92-29	NE8840A	SPR	60-36	OMY104	MULB	62-88	PD9093-59	♦PHIL	22-16
NB3007	NSC	83-78	NE160K	♦SIC	92-30	NE8840J	SPR	60-37	OMY105	MULB	86-37	PD9094-51	♦PHIL	22-24
NB3014	NSC	83-79	NE161A	♦SIC	92-31	NE8855A	SPR	68-53	OMY106	MULB	23-53	PD9094-59	♦PHIL	22-29
NB3015	NSC	83-80		SPR		NE8855J	SPR	68-54	OMY110	MULB	62-89	PD9097-51	♦PHIL	22-25
NB3016	NSC	23-91	NE161J	♦SIC	92-32	NE8870A	SPR	68-55	OMY120	MULB	62-90	PD9097-59	♦PHIL	22-30
NB3017	NSC	83-81		SPR		NE8870J	SPR	68-56	OMY121	MULB	111-5	PD9099-51	♦PHIL	22-13
NB3018	NSC	33-25	NE161K	♦SIC	92-33	NE8880A	SPR	68-57	OMY122	MULB	109-71	PD9099-59	♦PHIL	22-17
NB3019	NSC	32-68	NE162A	SPR	92-34	NE8880J	SPR	68-58	OMY123	MULB	101-89	PD9112-59	♦PHIL	100-90
NB3020	NSC	33-18	NE162J	SIC	92-35	NG682	♦CEQ	70-85	OMY124	MULB	62-91	PD9180-51	PHIL	68-66
NB3023	NSC	32-69		SPR		NG683	♦CEQ	70-86	OMY125	MULB	85-14	PD9180-59	PHIL	68-67
NC8	GIC	34-79	NE170A	♦SIC	80-9	NG684	♦CEQ	70-87	OMY126	MULB	23-54	PD9608-51	♦PHIL	100-18
NC8H	GIC	34-80		SPR		NG782	♦CEQ	71-5	OR2M	♦SCI	86-93	PD9608-59	♦PHIL	100-19
NC9	♦GIC	110-33	NE170J	♦SIC	80-10	NG783	♦CEQ	71-6	OR2Z	♦SCI	86-90	PD9620-61	♦PHIL	79-9
NC10	♦GIC	59-32		SPR		NG784	♦CEQ	71-7	OS1	♦CLC	93-79	PD9620-69	♦PHIL	79-10
NC11	GIC	73-91	NE180A	♦SIC	80-11	NG882	♦CEQ	71-101	OS1A	♦CLC	93-95	PD9620-71	♦PHIL	79-11
NC16	GIC	93-36		SPR		NG883	♦CEQ	71-102	OS2	♦CLC	93-109	PD9620-79	♦PHIL	79-12
NC17	GIC	104-33	NE180J	♦SIC	80-12	NG884	♦CEQ	71-103	OS2M	♦SCI	92-105	PD9621-61	♦PHIL	79-13
NC19	GIC	39-1		SPR		NG982	♦CEQ	73-84	OS2Z	♦SCI	92-97	PD9621-69	♦PHIL	79-14
NC400HN	NPC	66-55	NE181K	♦SIC	100-15	NG983	♦CEQ	73-85	OS4	♦SCI	92-74	PD9621-71	♦PHIL	79-15
NC400N	NPC	66-56	NE200	RTN	61-63	NG984	♦CEQ	73-86	OS11-1	CAM	92-76	PD9621-79	♦PHIL	79-16
NC400PM	NPC	66-57	NE415J	SIC	65-64	NH0011	none	none	OS11-2	CAM	92-77	PD9622-61	♦PHIL	79-17
NC410N	NPC	66-58	NE416A	SPR	68-99	Repl.by SH2001 Cur.			OS21	CLC	93-75	PD9622-69	♦PHIL	79-18
NC410PM	NPC	66-59	NE416J	♦SIC	68-100	NH0011C	NSC	none	OS21-1	CAM	93-7	PD9622-71	♦PHIL	79-19
NC420HN	NPC	66-60		SPR		Repl.by SH20021 Cur.			OS31	♦CLC	93-2	PD9622-79	♦PHIL	79-20
NC420N	NPC	66-61	NE417A	SPR	68-101	NH0011CN	NSC	none	OS31-1	CAM	93-52	PD9623-61	♦PHIL	29-14
NC420PM	NPC	66-62	NE417J	SIC	65-65	Repl.by SH2002P Cur.			OS641A	♦CEQ	92-70	PD9623-69	♦PHIL	29-15
NC430N	NPC	66-63		SPR		NH0017CN	NSC	none	OS642A	♦CEQ	92-71	PD9623-71	♦PHIL	29-16
NC430PM	NPC	66-64	NE424A	SPR	34-4	Repl.by SH2202P Cur.			OS741A	♦CEQ	92-87	PD9623-79	♦PHIL	29-17
NC440N	NPC	66-65	NE424J	♦SIC	34-5	NL101	♦CEQ	105-43	OS742A	♦CEQ	92-88	PD9624-61	♦PHIL	29-80
NC440PM	NPC	66-66		SPR		NL102	♦CEQ	105-44	OS841A	♦CEQ	92-109	PD9624-69	♦PHIL	29-81
NC450N	NPC	59-92	NE440A	SPR	83-19	NL103	♦CEQ	105-45	OS842A	♦CEQ	92-110	PD9624-71	♦PHIL	29-82
NC450PM	NPC	59-93	NE440J	♦SIC	83-20	NL104	♦CEQ	105-46	OS941A	♦CEQ	93-27	PD9624-79	♦PHIL	29-83
NC453N	NPC	59-94		SPR		NN5201	♦TRC	73-29	OS942A	♦CEQ	93-28	PD9625-61	♦PHIL	79-21
NC460N	NPC	85-94	NE455A	SPR	78-106	NN5202	♦TRC	73-30	OT12	XDS	93-49	PD9625-69	♦PHIL	79-22
NC472HN	NPC	29-59	NE455J	♦SIC	78-107	NN5203	TRC	73-31	OT18	XDS	91-81	PD9625-71	♦PHIL	79-23
NC472N	NPC	28-69		SPR		NN5204	♦TRC	73-32	OX12	XDS	93-68	PD9625-79	♦PHIL	79-24
NC607	GIC	99-9	NE470J	SIC	65-58	NN5205	♦TRC	87-42	OX13	XDS	93-69	PD9626-61	♦PHIL	29-18
NC608	GIC	99-10	NE471J	SIC	65-37	NN5206	♦TRC	73-33	OX14	XDS	93-70	PD9626-69	♦PHIL	29-19
NC1008	NSC	97-102	NE480A	SPR	68-102	NN5207	♦TRC	73-34	P11001	TSC	36-85	PD9626-71	♦PHIL	29-20
NC1009	NSC	102-64				NN5208	♦TRC	73-35	P11004	TSC	36-86	PD9626-79	♦PHIL	29-21

♦-Copy of mfr's data sheet
may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
Δ-Registered with JEDEC by this manufacturer

Obs-In this book

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
PD9627-61	♦PHIL	29-84
PD9627-69	♦PHIL	29-85
PD9627-71	♦PHIL	29-86
PD9627-79	♦PHIL	29-87
PD9628-61	♦PHIL	60-56
PD9628-69	♦PHIL	60-57
PD9628-71	♦PHIL	60-58
PD9628-79	♦PHIL	60-59
PD9629-61	♦PHIL	85-66
PD9629-69	♦PHIL	85-67
PD9629-71	♦PHIL	85-68
PD9629-79	♦PHIL	85-69
PD9630-61	♦PHIL	60-60
PD9630-69	♦PHIL	60-61
PD9630-71	♦PHIL	60-62
PD9630-79	♦PHIL	60-63
PD9631-61	♦PHIL	88-72
PD9631-69	♦PHIL	88-73
PD9631-71	♦PHIL	88-74
PD9631-79	♦PHIL	88-75
PD9632-61	♦PHIL	60-64
PD9632-69	♦PHIL	60-65
PD9632-71	♦PHIL	60-66
PD9632-79	♦PHIL	60-67
PD9633-61	♦PHIL	79-2
PD9633-69	♦PHIL	79-3
PD9633-71	♦PHIL	79-4
PD9633-79	♦PHIL	79-5
PD9634-61	♦PHIL	79-61
PD9634-69	♦PHIL	79-62
PD9634-71	♦PHIL	79-63
PD9634-79	♦PHIL	79-64
PD9635-61	♦PHIL	52-11
PD9635-69	♦PHIL	52-12
PD9635-71	♦PHIL	52-13
PD9635-79	♦PHIL	52-14
PD9636-61	♦PHIL	86-46
PD9636-69	♦PHIL	86-47
PD9636-71	♦PHIL	86-48
PD9636-79	♦PHIL	86-49
PD9637-61	♦PHIL	60-68
PD9637-69	♦PHIL	60-69
PD9637-71	♦PHIL	60-70
PD9637-79	♦PHIL	60-71
PD9857-51	PHIL	86-33
PD9857-59	PHIL	86-34
PD9858-51	PHIL	68-68
PD9858-59	PHIL	68-69
PD9930-51	♦PHIL	78-8
PD9930-59	♦PHIL	78-25
PD9931-51	PHIL	30-65
PD9931-59	PHIL	30-69
PD9932-51	♦PHIL	78-9
PD9932-59	♦PHIL	78-26
PD9933-51	♦PHIL	84-78
PD9933-59	♦PHIL	84-79
PD9935-51	PHIL	86-14
PD9935-59	PHIL	86-15
PD9936-51	♦PHIL	78-10
PD9936-59	♦PHIL	75-42
PD9937-51	♦PHIL	79-91
PD9937-59	♦PHIL	80-38
PD9941-51	PHIL	91-40
PD9941-59	PHIL	91-52
PD9941A51	PHIL	91-41
PD9941A59	PHIL	91-53
PD9944-51	♦PHIL	78-11
PD9944-59	♦PHIL	78-27
PD9945-51	♦PHIL	33-45
PD9945-59	♦PHIL	33-47
PD9946-51	♦PHIL	78-12
PD9946-59	♦PHIL	78-28
PD9946E51	♦PHIL	78-13
PD9946E59	♦PHIL	78-29
PD9948-51	♦PHIL	33-52
PD9948-59	♦PHIL	33-54
PD9949-51	♦PHIL	79-92
PD9949-59	♦PHIL	80-39
PD9950-51	♦PHIL	30-66
PD9950-59	♦PHIL	30-75
PD9951-51	♦PHIL	91-42
PD9951-59	♦PHIL	91-60
PD9951A51	PHIL	91-43
PD9951A59	PHIL	91-54
PD9961-51	♦PHIL	79-93
PD9961-59	♦PHIL	80-40
PD9962-51	♦PHIL	76-4
PD9962-59	♦PHIL	76-6
PD9963-51	♦PHIL	79-94
PD9963-59	♦PHIL	80-41
PD74107	♦PHIL	23-100
PD74121	PHIL	39-43
PD74145	♦PHIL	46-80
PE9093-59	PHIL	22-18
PE9094-59	PHIL	22-28
PE9097-59	PHIL	37-10
PE9099-59	PHIL	37-11
PE9608-59	PHIL	100-20
PE9930-59	PHIL	78-30
PE9931-59	PHIL	30-70
PE9932-59	PHIL	78-31
PE9933-59	PHIL	86-26
PE9936-59	PHIL	100-21
PE9937-59	PHIL	100-22
PE9944-59	PHIL	78-32
PE9945-59	PHIL	30-80
PE9946-59	PHIL	78-33
PE9946E59	PHIL	78-34
PE9948-59	PHIL	30-81
PE9949-59	PHIL	78-35
PE9950-59	PHIL	30-76
PE9951-59	PHIL	41-6
PE9961-59	PHIL	78-36
PE9962-59	PHIL	78-37
PE9963-59	PHIL	78-38
PG340	HIS	111-91
PH5001	♦PHIL	99-14
PH5002	♦PHIL	99-15
PH5003	♦PHIL	99-16
PHA2001-51	♦PHIL	112-100
PHA2001-59	♦PHIL	112-101
PHA2002-51	♦PHIL	112-102
PHA2002-59	♦PHIL	112-103
PHB2001-51	♦PHIL	112-104
PHB2001-59	♦PHIL	112-105
PHB2002-51	♦PHIL	112-106
PHB2002-59	♦PHIL	112-107
PL1N	TPN	108-82
PL1P	TPN	108-83
PL4A01C	♦PHIL	97-87
PL4C01	♦PHIL	42-7
PL4C06C	PHIL	110-102
PL4C07AC	♦PHIL	110-105
PL4C07ACF	♦PHIL	42-24
PL4C07ACP	♦PHIL	42-25
PL4C07C	♦PHIL	110-106
PL4C07CF	♦PHIL	42-5
PL4C07CP	♦PHIL	42-6
PL4G01#1	PHIL	71-10
PL4G01#2	PHIL	71-11
PL4G02	♦PHIL	47-6
PL4G03#1	PHIL	46-58
PL4G03#2	PHIL	46-59
PL4G10AC	♦PHIL	58-95
PL4G10ACF	♦PHIL	61-27
PL4G10ACP	♦PHIL	61-28
PL4G10C	♦PHIL	58-96
PL4G10CF	♦PHIL	61-29
PL4G10CP	♦PHIL	61-30
PL4G11AC	♦PHIL	58-97
PL4G11ACF	♦PHIL	58-98
PL4G11ACP	♦PHIL	58-99
PL4G11C	♦PHIL	58-100
PL4G11CF	♦PHIL	58-101
PL4G11CP	♦PHIL	58-102
PL4G12AC	♦PHIL	58-103
PL4G12ACF	♦PHIL	58-104
PL4G12ACP	♦PHIL	58-105
PL4G12C	♦PHIL	58-106
PL4G12CF	♦PHIL	58-107
PL4G12CP	♦PHIL	58-108
PL4M01	♦PHIL	22-54
PL4R01	PHIL	89-24
PL4R02	PHIL	89-44
PL4S01	♦PHIL	107-48
PL4S02	♦PHIL	96-51
PL4S10	♦PHIL	111-25
PL4S10C	♦PHIL	111-26
PL4S16	♦PHIL	108-110
PL4S16C	♦PHIL	109-1
PL5P256	PHIL	90-6
PL5P256A	PHIL	90-30
PL5R32	♦PHIL	none
Repl.by PL5R32C Obs.		
PL5R32C	♦PHIL	89-83
PL5R40	♦PHIL	none
Repl.by PL5R40C Obs.		
PL5R40C	PHIL	89-89
PL5R64X4C	♦PHIL	89-101
PL5R64X4LVC	♦PHIL	89-98
PL5R96C	♦PHIL	90-12
PL5R100	♦PHIL	none
Repl.by PL5R100C Obs.		
PL5R100C	♦PHIL	89-84
PL5R100X2C	PHIL	89-102
PL5R100X2LVC	PHIL	89-99
PL5R128	♦PHIL	90-7
PL5R128A	♦PHIL	90-31
PL5R128AC	♦PHIL	90-32
PL5R128C	♦PHIL	90-8
PL5R198C	♦PHIL	89-103
PL5R250	♦PHIL	90-9
PL5R250A	♦PHIL	90-33
PL5R250AC	♦PHIL	90-34
PL5R250C	♦PHIL	90-10
PL5R256	♦PHIL	90-11
PL5R256AC	♦PHIL	90-35
PL5R256C	PHIL	90-13
PL5R256X2C	PHIL	90-14
PL5R512C	♦PHIL	89-104
PL103	PHIL	68-59
PL104	PHIL	68-2
PL901#1	PHIL	107-49
PL901#2	PHIL	107-50
PL902#1	PHIL	30-33
PL902#2	PHIL	30-34
PL903#1	PHIL	57-99
PL903#2	PHIL	57-100
PL904#1	PHIL	98-26
PL904#2	PHIL	98-27
PL905#1	PHIL	37-65
PL905#2	PHIL	37-66
PL906#1	PHIL	37-4
PL906#2	PHIL	37-5
PL907#1	PHIL	57-101
PL907#2	PHIL	57-102
PL908#1	PHIL	97-33
PL908#2	PHIL	97-34
PL910#1	PHIL	57-76
PL910#2	PHIL	57-77
PL911#1	PHIL	62-40
PL911#2	PHIL	62-41
PL912#1	PHIL	98-28
PL912#2	PHIL	98-29
PL913#1	PHIL	36-109
PL913#2	PHIL	36-110
PL914#1	PHIL	57-103
PL914#2	PHIL	57-104
PL915#1	PHIL	57-105
PL915#2	PHIL	57-106
PL916#1	PHIL	21-47
PL916#2	PHIL	21-48
PL921#1	PHIL	85-38
PL921#2	PHIL	85-39
PL930	PHIL	67-81
PL931	PHIL	32-80
PL932	PHIL	67-82
PL933	PHIL	86-16
PL939#1	PHIL	57-78
PL939#2	♦PHIL	57-79
PL940	PHIL	21-46
PL944	PHIL	67-83
PL945	PHIL	32-81
PL946	PHIL	67-84
PL948	PHIL	32-82
PL949	PHIL	89-72
PL961	PHIL	67-85
PL962	PHIL	67-86
PL963	PHIL	67-87
PL975	PHIL	83-108
PL976	PHIL	57-80
PL977	PHIL	57-81
PL978	PHIL	57-82
PL979	PHIL	85-40
PL980	PHIL	57-83
PL981	PHIL	98-30
PL983	PHIL	57-72
PL984	PHIL	37-1
PL985	PHIL	57-73
PL986	PHIL	65-9
PL987	PHIL	65-36
PL988	PHIL	21-50
PL5050#1	PHIL	44-60
PL5050#2	PHIL	44-61
PL5100	GME	90-1
PL5120	GME	90-2
PL5150	GME	90-3
PL5172	GME	90-4
PL5208	♦PHIL	89-85
PL5216	♦PHIL	89-86
PL5220	♦PHIL	89-87
PL5232	♦PHIL	89-88
PL9093-51	♦PHIL	22-14
PL9093-59	♦PHIL	22-19
PL9094-51	♦PHIL	22-26
PL9094-59	♦PHIL	22-31
PL9097-51	♦PHIL	22-27
PL9097-59	♦PHIL	22-32
PL9099-51	♦PHIL	22-15
PL9099-59	♦PHIL	22-20
PL9112-59	♦PHIL	100-91
PL9180-51	PHIL	68-70
PL9180-59	PHIL	68-77
PL9600	♦PHIL	27-69
PL9601	♦PHIL	24-70
PL9602	♦PHIL	62-30
PL9603	♦PHIL	62-31
PL9604	♦PHIL	61-16
PL9605	♦PHIL	98-31
PL9606	♦PHIL	98-97
PL9607	♦PHIL	98-98
PL9608	PHIL	100-23
PL9608-51	♦PHIL	100-24
PL9608-59	♦PHIL	100-25
PL9609	PHIL	62-50
PL9609-21	♦PHIL	62-22
PL9609-23	♦PHIL	62-23
PL9610	♦PHIL	98-99
PL9611	♦PHIL	98-100
PL9620-61	♦PHIL	79-25
PL9620-69	♦PHIL	79-26
PL9620-71	♦PHIL	79-27
PL9620-79	♦PHIL	79-28
PL9621-61	♦PHIL	79-29
PL9621-69	♦PHIL	79-30
PL9621-71	♦PHIL	79-31
PL9621-79	♦PHIL	79-32
PL9622-61	♦PHIL	79-33
PL9622-69	♦PHIL	79-34
PL9622-71	♦PHIL	79-35
PL9622-79	♦PHIL	79-36
PL9623-61	♦PHIL	29-22
PL9623-69	♦PHIL	29-23
PL9623-71	♦PHIL	29-24
PL9623-79	♦PHIL	29-25
PL9624-61	♦PHIL	29-88
PL9624-69	♦PHIL	29-89
PL9624-71	♦PHIL	29-90
PL9624-79	♦PHIL	29-91
PL9625-61	♦PHIL	79-37
PL9625-69	♦PHIL	79-38
PL9625-71	♦PHIL	79-39
PL9625-79	♦PHIL	79-40
PL9626-61	♦PHIL	29-26
PL9626-69	♦PHIL	29-27
PL9626-71	♦PHIL	29-28
PL9626-79	♦PHIL	29-29
PL9627-61	♦PHIL	29-92
PL9627-69	♦PHIL	29-93
PL9627-71	♦PHIL	29-94
PL9627-79	♦PHIL	29-95
PL9628-61	♦PHIL	60-72
PL9628-69	♦PHIL	60-73
PL9628-71	♦PHIL	60-74
PL9628-79	♦PHIL	60-75
PL9629-61	♦PHIL	85-70
PL9629-69	♦PHIL	85-71
PL9629-71	♦PHIL	85-72
PL9629-79	♦PHIL	85-73
PL9630-61	♦PHIL	60-76
PL9630-69	♦PHIL	60-77
PL9630-71	♦PHIL	60-78
PL9630-79	♦PHIL	60-79
PL9631-61	♦PHIL	88-76
PL9631-69	♦PHIL	88-77
PL9631-71	♦PHIL	88-78
PL9631-79	♦PHIL	88-79
PL9632-61	♦PHIL	60-80
PL9632-69	♦PHIL	60-81
PL9632-71	♦PHIL	60-82
PL9632-79	♦PHIL	60-83
PL9634-61	♦PHIL	79-65
PL9634-69	♦PHIL	79-66
PL9634-71	♦PHIL	79-67
PL9634-79	♦PHIL	79-68
PL9635-61	♦PHIL	52-15
PL9635-69	♦PHIL	52-16
PL9635-71	♦PHIL	52-17
PL9635-79	♦PHIL	52-18
PL9636-61	♦PHIL	86-50
PL9636-69	♦PHIL	86-51
PL9636-71	♦PHIL	86-52
PL9636-79	♦PHIL	86-53
PL9637-61	♦PHIL	60-84
PL9637-69	♦PHIL	60-85
PL9637-71	♦PHIL	60-86
PL9637-79	♦PHIL	60-87
PL9857-51	PHIL	86-35
PL9857-59	PHIL	86-36
PL9858-51	PHIL	68-71
PL9858-59	PHIL	68-72
PL9901	PHIL	107-51
PL9902	PHIL	30-35
PL9903	PHIL	57-107
PL9904	PHIL	98-32
PL9905	PHIL	37-67
PL9906	PHIL	37-6
PL9907	PHIL	57-108
PL9908-21	♦PHIL	97-35
PL9908-23	♦PHIL	97-36
PL9908#1	PHIL	98-33
PL9908#2	PHIL	98-34
PL9909-21	♦PHIL	62-24
PL9909-23	♦PHIL	62-25
PL9910	PHIL	57-84
PL9910-21	♦PHIL	62-26
PL9910-23	♦PHIL	62-27
PL9911	PHIL	57-85
PL9911-21	♦PHIL	63-104
PL9911-23	PHIL	63-105
PL9912	PHIL	98-35
PL9912-21	PHIL	98-36
PL9912-23	♦PHIL	98-37
PL9913	PHIL	37-2
PL9913-21	♦PHIL	35-24
PL9913-23	♦PHIL	35-25
PL9914	PHIL	57-109
PL9915	PHIL	57-110
PL9916	PHIL	21-49
PL9921	PHIL	85-41
PL9921-21	♦PHIL	85-20
PL9921-23	♦PHIL	85-21
PL9923	PHIL	22-57
PL9926	PHIL	23-96
PL9930	PHIL	67-88
PL9930-51	♦PHIL	78-14
PL9930-59	♦PHIL	78-39
PL9931	PHIL	32-83
PL9931-51	♦PHIL	30-67
PL9931-59	♦PHIL	30-71
PL9932	PHIL	67-89
PL9932-51	♦PHIL	78-15
PL9932-59	♦PHIL	78-40
PL9933	PHIL	86-17
PL9933-51	♦PHIL	84-80
PL9933-59	♦PHIL	84-81
PL9935-51	PHIL	86-18
PL9935-59	PHIL	86-19
PL9936-51	♦PHIL	78-16
PL9936-59	♦PHIL	75-43
PL9937-51	♦PHIL	79-95
PL9937-59	♦PHIL	80-42
PL9939	PHIL	57-86
PL9939-21	♦PHIL	62-28
PL9939-23	♦PHIL	62-29
PL9940-21	♦PHIL	23-48
PL9940-23	♦PHIL	23-49
PL9940A	PHIL	23-50
PL9941-51	PHIL	91-44
PL9941-59	PHIL	91-55
PL9941A51	PHIL	91-45
PL9941A59	PHIL	91-56
PL9944	PHIL	67-90
PL9944-51	♦PHIL	78-17
PL9944-59	♦PHIL	78-41
PL9945	PHIL	32-79
PL9945-51	♦PHIL	33-46
PL9945-59	♦PHIL	33-48
PL9946	PHIL	67-91
PL9946-51	♦PHIL	78-18
PL9946-59	♦PHIL	78-42
PL9946E51	♦PHIL	78-19
PL9946E59	♦PHIL	78-43
PL9948	PHIL	32-84
PL9948-51	♦PHIL	33-53
PL9948-59	♦PHIL	33-55
PL9949	PHIL	89-73
PL9949-51	♦PHIL	79-96
PL9949-59	♦PHIL	80-43
PL9950-51	♦PHIL	30-68
PL9950-59	♦PHIL	30-77
PL9951-51	♦PHIL	91-46
PL9951-59	♦PHIL	91-61
PL9951A51	PHIL	91-47
PL9951A59	PHIL	91-57
PL9961	PHIL	67-92
PL9961-51	♦PHIL	79-97
PL9961-59	♦PHIL	80-44
PL9962	PHIL	67-93
PL9962-51	♦PHIL	76-5
PL9962-59	♦PHIL	76-7
PL9963	PHIL	67-94
PL9963-51	♦PHIL	79-98
PL9963-59	♦PHIL	80-45
PL9974	PHIL	23-97
PL9975	PHIL	83-3
PL9976	PHIL	57-87
PL9977	PHIL	57-88
PL9978	PHIL	57-89
PL9979	PHIL	85-42
PL9980	PHIL	57-90
PL9981	PHIL	98-38
PL9983	PHIL	57-74
PL9984	PHIL	37-3
PL9985	PHIL	57-75
PL9986	♦PHIL	82-94
PL9987	♦PHIL	65-8
PL9988	♦PHIL	37-51
PM1024ACF	♦PHIL	108-44
PM1024ACP	♦PHIL	108-45
PM1024AF	♦PHIL	108-46
PM1024AP	♦PHIL	108-47
PM1024C	♦PHIL	111-47
PM1024CF	♦PHIL	108-48
PM1024CP	♦PHIL	108-49
PM1024F	♦PHIL	108-50
PM1024P	♦PHIL	108-51
PM6003	WAL	43-9
PM6013	WAL	91-78
PM6753	WAL	43-30
PM6983	WAL	21-10
PM6993	WAL	21-6
PM7003	WAL	39-55
PM7013	WAL	39-49
PM7023	WAL	92-78
PM7063	WAL	50-25
PM7253	WAL	43-31
PM7663	WAL	50-33
PM7673	WAL	54-56
PM7683	WAL	50-34
PM7693	WAL	54-57
PM7783	WAL	50-35
PM7803	WAL	54-58
PM7893	WAL	109-7
PM7943	WAL	21-7
PM7963	WAL	109-8
PM8013	WAL	92-73
PM8223	WAL	49-89
PM8263	WAL	101-83
PM8273	WAL	101-84
PM8343	WAL	49-69
PM8353	WAL	49-70
PM8363	WAL	54-42
PM8373	WAL	54-43
PM8383	WAL	50-36
PM8393	WAL	50-37
PM8403	WAL	54-59
PM8413	WAL	54-60
PM8513	WAL	43-29
PM8563	WAL	43-28
PM8573	WAL	105-87
PM8583	WAL	37-38
PM8593	WAL	108-84
PM8793	WAL	37-39
PM8803	WAL	109-67
PM9093-59	♦PHIL	22-21
PM9094-59	♦PHIL	22-33
PM9097-59	♦PHIL	22-34
PM9099-59	♦PHIL	22-22
PM9243	WAL	37-26
PM9283	WAL	50-38
PM9393	WAL	54-61
PM9433	WAL	105-88
PM9583	WAL	50-39
PM9608-59	PHIL	100-26
PM9930-59	♦PHIL	78-44
PM9932-59	♦PHIL	78-45
PM9933-59	♦PHIL	84-82
PM9936-59	♦PHIL	75-44
PM9937-59	♦PHIL	80-46
PM9944-59	♦PHIL	78-46
PM9945-59	♦PHIL	33-49
PM9946-59	♦PHIL	78-47
PM9946E59	♦PHIL	78-48
PM9948-59	♦PHIL	33-56
PM9949-59	♦PHIL	80-47
PM9950-59	♦PHIL	30-78
PM9951-59	♦PHIL	91-62
PM9961-59	♦PHIL	80-48
PM9962-59	♦PHIL	76-8
PM9963-59	♦PHIL	80-49
PM10123	WAL	92-82
PM10283	WAL	43-106
PM10313	WAL	109-9
PM10343	WAL	37-97
PM10533	WAL	39-50
PM10541	WAL	41-8
PM10551	WAL	41-7
PM10583	WAL	105-53
PM10703	WAL	50-40
PM10713	WAL	50-41
PM10723	WAL	54-62
PM10733	WAL	54-63
PM10743	WAL	31-30
PM10773	WAL	101-85
PM10803	WAL	91-74
PM10953	WAL	109-84
PM10963	WAL	93-6
PM11113	WAL	43-32
PM14523	WAL	108-98

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK

Obs-In this book

Δ-Registered with JEDEC by this manufacturer

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
PMS16X4C	♦PHIL	109-72	R42001	TSC	22-88	RC286P	RTN	67-53	RD09B	♦AMI	90-46	RF50P	RTN	35-9
PMS256X1C	♦PHIL	109-45	R46701	TSC	31-52	RC288D	♦RTN	91-107	RD11-2	CAM	105-89	RF51P	RTN	35-10
PMS256X1LVC	PHIL	108-52	RA245	♦HAS	112-24	RC288J	♦RTN	91-108	RD11-3	CAM	105-90	RF52P	RTN	24-58
PMS1024C	♦PHIL	111-48	RA246	♦HAS	112-51	RC288P	RTN	91-109	RD12-1	CAM	105-91	RF53P	RTN	24-59
PMS2048C	♦PHIL	111-56	RA248	HAS	112-63	RC288Q	♦RTN	91-110	RD16AC	AMI	89-4	RF60P	RTN	24-60
PMS2048LVC	PHIL	111-57	RA545	♦HAS	112-25	RC288T	♦RTN	92-1	RD17	AMI	89-5	RF61P	RTN	24-61
PMS2240C5	♦PHIL	111-58	RA546	♦HAS	112-64	RC296D	RTN	67-54	RD18	AMI	89-6	RF62P	RTN	24-62
PMS2240C7	♦PHIL	111-59	RA1245	♦HAS	112-26	RC296G	RTN	67-55	RD19	AMI	89-7	RF63P	RTN	24-63
PMS2560LVC	PHIL	111-49	RA1246	♦HAS	112-52	RC296P	RTN	67-56	RD20	AMI	89-8	RF100P	RTN	26-10
PN22-1	CAM	102-69	RA1248	HAS	110-91	RC301Q	RTN	36-56	RD22-1	CAM	105-92	RF101P	RTN	26-11
PN335	♦HIS	53-56	RA1545	♦HAS	112-27	RC301T	RTN	36-57	RD66AC	AMI	89-3	RF102P	RTN	26-12
PPL1N	TPN	108-85	RA1546	♦HAS	112-65	RC322A	RTN	56-95	RD67	AMI	89-9	RF103P	RTN	26-13
PPL1P	TPN	108-86	RA1548	HAS	112-66	RC322B	RTN	56-96	RD68	AMI	89-10	RF110P	RTN	26-14
PR330	HIS	109-90	RC103	RTN	56-91	RC323B	RTN	56-97	RD69	AMI	89-11	RF111P	RTN	26-15
Q401	♦EEC	106-17	RC123	RTN	56-92	RC323C	RTN	56-98	RD70	AMI	89-12	RF112P	RTN	26-16
Q402	♦EEC	111-94	RC124	RTN	56-93	RC330	HIS	109-91	RD200	HAS	64-96	RF113P	RTN	26-17
Q403	EEC	106-18	RC144	RTN	56-94	RC401	RTN	58-45	RD200-1	HAS	64-97	RF120P	RTN	26-72
Q411	♦EEC	70-73	RC201D	RTN	76-80	RC930D	RTN	77-27	RD202	HAS	84-83	RF121P	RTN	26-73
Q412	♦EEC	101-5	RC201G	RTN	76-81	RC930J	RTN	77-28	RD202-1	HAS	84-84	RF122P	RTN	26-74
Q413	♦EEC	111-93	RC201P	RTN	76-82	RC930P	RTN	77-29	RD203	HAS	107-52	RF123P	RTN	26-75
Q414	♦EEC	70-74	RC201T	RTN	76-83	RC930T	RTN	77-30	RD203-1	HAS	107-53	RF130P	RTN	26-76
Q415	♦EEC	101-6	RC202D	RTN	30-42	RC932D	RTN	77-31	RD204	HAS	32-75	RF131P	RTN	26-77
Q416	♦EEC	30-99	RC202G	RTN	30-43	RC932J	RTN	77-32	RD204#1	♦HAS	32-76	RF132P	RTN	26-78
Q417	♦EEC	30-100	RC202P	RTN	30-44	RC932P	RTN	77-33	RD205	♦HAS	80-50	RF133P	RTN	26-79
Q420	♦EEC	27-32	RC202T	RTN	30-45	RC932T	RTN	77-34	RD206	♦HAS	80-51	RF200P	RTN	26-80
Q421	♦EEC	70-91	RC204D	RTN	76-84	RC933D	RTN	86-8	RD207	♦HAS	29-4	RF201P	RTN	26-81
Q422	♦EEC	101-21	RC204G	RTN	76-85	RC933J	RTN	86-9	RD208	♦HAS	32-85	RF202P	RTN	26-82
Q423	♦EEC	111-95	RC204P	RTN	76-86	RC933P	RTN	86-10	RD209	♦HAS	78-55	RF203P	RTN	26-83
Q424	♦EEC	30-101	RC204T	RTN	76-87	RC933T	RTN	86-11	RD210	♦HAS	80-52	RF210P	RTN	26-84
Q426	♦EEC	95-74	RC206D	RTN	76-88	RC934D	RTN	100-27	RD211	♦HAS	88-86	RF211P	RTN	26-85
Q431	♦EEC	71-65	RC206G	RTN	76-89	RC934J	RTN	100-28	RD220	♦HAS	99-65	RF212P	RTN	26-86
Q432	♦EEC	101-86	RC206P	RTN	76-90	RC934P	RTN	100-29	RD221	♦HAS	34-105	RF213P	RTN	26-87
Q433	♦EEC	111-98	RC210D	RTN	67-43	RC936D	RTN	100-30	RD222	♦HAS	68-42	RF250P	RTN	25-64
Q434	♦EEC	31-28	RC210G	RTN	67-44	RC936J	RTN	100-31	RD223	♦HAS	99-66	RF252P	RTN	25-65
Q435	EEC	71-66	RC210P	RTN	67-45	RC936P	RTN	100-32	RD234	♦HAS	100-36	RF253P	RTN	25-66
Q481	♦EEC	71-63	RC210T	RTN	67-46	RC937D	RTN	100-33	RD235	♦HAS	100-37	RF260P	RTN	25-67
Q482	♦EEC	101-87	RC211D	RTN	76-91	RC937J	RTN	100-34	RD237	♦HAS	28-62	RF261P	RTN	25-68
Q11001	TSC	57-66	RC211G	RTN	76-92	RC937P	RTN	100-35	RD247	♦HAS	23-63	RF262P	RTN	25-69
Q11004	TSC	57-67	RC211P	RTN	76-93	RC944D	RTN	77-35	RD305	♦HAS	80-53	RF263P	RTN	25-70
Q11008	TSC	57-68	RC211T	RTN	76-94	RC944J	RTN	77-36	RD306	♦HAS	80-54	RF3120P	RTN	26-107
Q41001	TSC	57-69	RC212D	RTN	30-46	RC944P	RTN	77-37	RD307	♦HAS	29-5	RF3122P	RTN	26-108
Q41008	TSC	57-70	RC212G	RTN	30-47	RC944T	RTN	77-38	RD308	♦HAS	32-86	RF3130P	RTN	26-109
QC1440F	♦QDC	111-64	RC212P	RTN	30-48	RC945D	RTN	33-30	RD309	♦HAS	78-56	RF3132P	RTN	26-110
QC1440G	♦QDC	111-65	RC212T	RTN	30-49	RC945J	RTN	33-31	RD310	♦HAS	80-55	RF3200P	RTN	27-1
QC1488	QDC	111-109	RC213D	RTN	43-108	RC945P	RTN	33-32	RD320	♦HAS	99-67	RF3202P	RTN	27-2
QC1489	QDC	112-36	RC213G	RTN	43-109	RC945Q	RTN	33-33	RD321	HAS	34-106	RF3210P	RTN	27-3
QC1489A	QDC	112-37	RC213P	RTN	43-110	RC945T	RTN	33-34	RD334	♦HAS	99-68	RF3212P	RTN	27-4
QC1540F	♦QDC	111-66	RC213T	RTN	44-1	RC946D	RTN	77-39	RD337	HAS	28-63	RF3220P	RTN	38-12
QC1540G	♦QDC	111-67	RC214D	RTN	76-95	RC946J	RTN	77-40	RD505	♦HAS	80-56	RF3222P	RTN	38-13
QC7520	♦QDC	111-77	RC214G	RTN	76-96	RC946P	RTN	77-41	RD506	♦HAS	80-57	RF3230P	RTN	38-48
QC7521	♦QDC	111-78	RC214P	RTN	76-97	RC946T	RTN	77-42	RD508	♦HAS	32-87	RF3232P	RTN	38-49
QC7522	♦QDC	111-79	RC214T	RTN	76-98	RC948D	RTN	33-35	RD509	♦HAS	78-57	RG1	♦CLC	54-53
QC7523	♦QDC	111-80	RC215D	RTN	23-4	RC948J	RTN	33-36	RD510	♦HAS	80-58	RG1A	♦CLC	54-84
QC7524	♦QDC	111-81	RC215G	RTN	23-5	RC948P	RTN	33-37	RD511	♦HAS	88-87	RG2	♦CLC	54-100
QC7525	♦QDC	111-82	RC215P	RTN	23-6	RC948Q	RTN	33-38	RD520	♦HAS	99-69	RG3	♦CLC	50-24
QC7820	QDC	112-38	RC215T	RTN	23-7	RC948T	RTN	33-39	RD534	♦HAS	99-70	RG3A	♦CLC	50-71
QC7830	QDC	111-110	RC216D	RTN	76-99	RC949D	RTN	77-43	RD535	HAS	99-71	RG4	♦CLC	51-14
QC8820	QDC	112-39	RC216G	RTN	76-100	RC949J	RTN	77-44	RD536	HAS	99-72	RG13-1	CAM	109-10
QC8830	QDC	112-1	RC216P	RTN	76-101	RC949P	RTN	77-45	RD537	HAS	28-64	RG21	CLC	54-45
QC9614-1F	♦QDC	112-2	RC217G	RTN	113-16	RC949T	RTN	77-46	RD1234	HAS	100-38	RG23	CLC	49-72
QC9614-1J	♦QDC	112-3	RC217Q	RTN	113-17	RC950D	RTN	30-54	RD1235	HAS	100-39	RG23-1	CAM	109-85
QC9614-1P	♦QDC	112-4	RC217T	RTN	113-18	RC950J	RTN	30-55	RD1334	HAS	99-73	RG31	♦CLC	87-43
QC9614-9F	♦QDC	112-5	RC220D	RTN	67-47	RC950P	RTN	30-56	RD1413N	INI	106-30	RG40P	RTN	74-4
QC9614-9J	♦QDC	112-6	RC220G	RTN	67-48	RC950Q	RTN	30-57	RD1513N	INI	106-31	RG41P	RTN	74-5
QC9614-9P	♦QDC	112-7	RC220P	RTN	67-49	RC950T	RTN	30-58	RD1534	HAS	99-74	RG42P	RTN	74-6
QC9615-1F	♦QDC	112-40	RC220T	RTN	67-50	RC951D	RTN	91-92	RD1535	HAS	99-75	RG43P	RTN	74-7
QC9615-1J	♦QDC	112-41	RC221D	RTN	76-102	RC951J	RTN	91-93	RD1536	HAS	99-76	RG50P	RTN	55-48
QC9615-1P	♦QDC	112-42	RC221G	RTN	76-103	RC951P	RTN	91-94	RD5307	♦TRC	106-3	RG51P	RTN	55-49
QC9615-9F	♦QDC	112-43	RC221P	RTN	76-104	RC951Q	RTN	91-95	RD-A1	AMI	89-13	RG52P	RTN	55-50
QC9615-9J	♦QDC	112-44	RC221T	RTN	76-105	RC951T	RTN	91-96	RDC332	EMC	42-104	RG53P	RTN	55-51
QC9615-9P	♦QDC	112-45	RC222D	RTN	30-50	RC961D	RTN	77-47	RDC362	EMC	42-105	RG60P	RTN	74-8
QC55107	QDC	112-46	RC222G	RTN	30-51	RC961J	RTN	77-48	RDC801	EMC	42-68	RG61P	RTN	74-9
QC55108	QDC	112-47	RC222P	RTN	30-52	RC961P	RTN	77-49	RDC808	EMC	45-12	RG62P	RTN	74-10
QC55109	QDC	112-8	RC222T	RTN	30-53	RC961T	RTN	77-50	RDD930R	HAS	78-20	RG63P	RTN	74-11
QC55110	QDC	112-9	RC224D	RTN	76-106	RC962D	RTN	77-51	RDD932R	HAS	78-21	RG70P	RTN	55-52
QC75107	QDC	112-48	RC224G	RTN	76-107	RC962J	RTN	77-52	RDD944R	HAS	78-22	RG71P	RTN	55-53
QC75108	QDC	112-49	RC224P	RTN	76-108	RC962P	RTN	77-53	RDD945R	HAS	30-79	RG72P	RTN	55-54
QC75109	QDC	112-10	RC224T	RTN	76-109	RC962T	RTN	77-54	RDD946R	HAS	78-23	RG73P	RTN	55-55
QC75110	QDC	112-11	RC225D	RTN	24-2	RC963D	RTN	77-55	RDD962R	HAS	78-24	RG80P	RTN	51-87
QC75150	QDC	112-12	RC225G	♦RTN	24-3	RC963J	RTN	77-56	RDD980R	HAS	98-80	RG81P	RTN	51-88
QC75154	QDC	112-50	RC225P	RTN	24-4	RC963P	RTN	77-57	RDD981R	HAS	111-101	RG82P	RTN	51-89
QF1	♦CLC	27-78	RC225T	♦RTN	24-5	RC963T	RTN	77-58	RDT54H00R	HAS	68-7	RG83P	RTN	51-90
QF1A	♦CLC	28-12	RC226D	RTN	76-110	RC988D	RTN	93-60	RDT54H20R	HAS	68-8	RG90P	RTN	88-25
QF2	♦CLC	28-36	RC226G	RTN	77-1	RC988J	RTN	93-61	RDT54H51R	HAS	60-32	RG91P	RTN	88-26
QF21	CLC	27-74	RC226P	RTN	77-2	RC988P	RTN	93-62	RDT54H54R	HAS	60-33	RG92P	RTN	88-27
QT10	XDS	104-91	RC227D	RTN	113-19	RC988T	RTN	93-63	RDT54H74R	HAS	38-27	RG93P	RTN	88-28
QT14	XDS	105-28	RC227G	RTN	113-20	RC993D	RTN	21-75	RDXM/RDLM	WLD	42-69	RG100P	RTN	55-56
QT16	XDS	105-7	RC227P	RTN	113-21	RC993J	RTN	21-76	RF10K	♦RTN	32-10	RG101P	RTN	55-57
QX12	XDS	105-47	RC231D	RTN	77-3	RC993P	RTN	21-77	RF10P	RTN	32-11	RG102P	RTN	55-58
QX13	XDS	104-92	RC231G	RTN	77-4	RC994D	RTN	21-78	RF11D	♦RTN	32-12	RG103P	RTN	55-59
QX14	XDS	105-14	RC231P	RTN	77-5	RC994J	RTN	21-79	RF11K	♦RTN	32-13	RG110P	RTN	55-60
R101	EEC	95-55	RC231T	RTN	77-6	RC994P	RTN	21-80	RF11P	RTN	32-14	RG111P	RTN	55-61
R121⧄	EEC	95-56	RC234D	RTN	77-7	RC997D	RTN	21-81	RF12D	♦RTN	32-15	RG112P	RTN	55-62
R201⧄	EEC	95-57	RC234G	RTN	77-8	RC997J	RTN	21-82	RF12K	♦RTN	32-16	RG113P	RTN	55-63
R284	DEC	31-36	RC234P	RTN	77-9	RC997P	RTN	21-83	RF12P	RTN	32-17	RG120P	RTN	74-12
R341	EEC	95-58	RC234T	RTN	77-10	RC999D	RTN	21-84	RF13D	♦RTN	32-18	RG121P	RTN	74-13
R342	EEC	95-59	RC236D	RTN	77-11	RC999J	RTN	21-85	RF13K	♦RTN	32-19	RG122P	RTN	74-14
R346	EEC	95-60	RC236G	RTN	77-12	RC999P	RTN	21-86	RF13P	RTN	32-20	RG123P	RTN	74-15
R381	EEC	95-61	RC236P	RTN	77-13	RC1031	RTN	56-99	RF20D	♦RTN	34-107	RG130P	RTN	74-16
R382	EEC	95-62	RC241D	RTN	77-14	RC1032	RTN	56-100	RF20K	♦RTN	34-108	RG131P	RTN	74-17
R441	EEC	95-63	RC241G	RTN	77-15	RC1033	RTN	56-101	RF20P	RTN	34-109	RG132P	RTN	80-68
R481	EEC	95-64	RC241P	RTN	77-16	RC1231	RTN	56-102	RF21D	♦RTN	34-110	RG133P	RTN	80-69
R561	EEC	95-65	RC241T	RTN	77-17	RC1232	RTN	56-103	RF21K	♦RTN	35-1	RG140P	RTN	74-18
R661	EEC	95-66	RC246D	RTN	77-18	RC1233	RTN	56-104	RF21P	RTN	35-2	RG141P	RTN	74-19
R11001	TSC	36-90	RC246G	RTN	77-19	RD01B	♦AMI	89-74	RF22D	♦RTN	35-3	RG142P	RTN	74-20
R11004	TSC	36-91	RC246P	RTN	77-20	RD02C	♦AMI	89-75	RF22K	♦RTN	35-4	RG143P	RTN	74-21
R11008	TSC	36-92	RC261D	RTN	77-21	RD2M	SCI	106-43	RF22P	RTN	35-5	RG150P	RTN	86-94
R11014	TSC	36-93	RC261G	RTN	77-22	RD2Z	♦SCI	106-23	RF23D	♦RTN	35-6	RG151P	RTN	86-58
R12001	TSC	22-87	RC261P	RTN	77-23	RD03B	♦AMI	89-95	RF23K	♦RTN	35-7	RG152P	RTN	86-59
R12002	TSC	22-73	RC266D	RTN	77-24	RD04	♦VDM	105-78	RF23P	RTN	35-8	RG153P	RTN	86-60
R16701	TSC	31-51	RC266G	RTN	77-25	RD04A	♦VDM	105-79	RF30P	RTN	34-64	RG160P	RTN	112-13
R41001	TSC	36-94	RC266P	RTN	77-26	RD04C	♦AMI	89-96	RF31P	RTN	34-65	RG161P	RTN	112-14
R41008	TSC	36-95	RC286D	RTN	67-51	RD04F	♦AMI	89-97	RF32P	RTN	34-66	RG162P	RTN	112-15
R41014	TSC	36-96	RC286G	RTN	67-52	RD06B	♦AMI	90-36	RF33P	RTN	34-67	RG163P	RTN	112-16

♦-Copy of mfr's data sheet
may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
Δ-Registered with JEDEC by this manufacturer

Obs-In this book

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
RG170P	RTN	86- 61	RG7520P	RTN	104- 72	RM217Q	♦RTN	87- 32	S53H	WLD	71- 61	SCL54004T	SSS	42- 42
RG171P	RTN	86- 62	RG7521P	RTN	104- 73			113- 37	S53M	WLD	70-101	SD02	♦VDM	105- 85
RG172P	RTN	86- 63	RG7522P	RTN	104- 74	RM220P	RTN	67- 58	S54H00F	SIC	64- 35	SD30	♦HIS	106- 38
RG173P	RTN	86- 64	RG7523P	RTN	104- 75	RM221P	RTN	77- 65	S54H01F	SIC	64- 36	SD301BG	♦SSS	69- 99
RG180P	RTN	48- 90	RG7540P	RTN	104- 76	RM221Q	RTN	76- 26	S54H04F	SIC	100- 98	SD301BJ	♦SSS	69-100
RG181P	RTN	48- 91	RG7541P	RTN	104- 77	RM222P	RTN	30- 61	S54H05F	SIC	100- 99	SD301CG	♦SSS	69-101
RG182P	RTN	48- 92	RG7542P	RTN	104- 78	RM224P	RTN	77- 66	S54H10F	SIC	64- 37	SD301CJ	♦SSS	69-102
RG183P	RTN	48- 93	RG7543P	RTN	104- 79	RM224Q	RTN	80- 84	S54H11F	SIC	48- 6	SD302BG	♦SSS	69-103
RG190P	RTN	74- 22	RJ10	XDS	105- 6	RM225P	RTN	24- 6	S54H20F	SIC	64- 38	SD302BJ	♦SSS	69-104
RG191P	RTN	74- 23	RL10P	RTN	97- 37	RM226P	RTN	77- 67	S54H21F	SIC	48- 7	SD302CG	♦SSS	69-105
RG192P	RTN	74- 24	RL11P	RTN	97- 38	RM231P	RTN	77- 68	S54H22F	SIC	64- 39	SD302CJ	♦SSS	69-106
RG193P	RTN	74- 25	RL12P	RTN	97- 39	RM231Q	RTN	76- 27	S54H30F	SIC	64- 40	SD303BG	♦SSS	69-107
RG201P	RTN	69- 21	RL13P	RTN	97- 40	RM234P	RTN	77- 69	S54H52F	SIC	52- 2	SD303BJ	♦SSS	69-108
RG202P	RTN	69- 22	RL20P	RTN	97- 41	RM236P	RTN	77- 70	S1280A	SIC	42- 60	SD303CG	♦SSS	69-109
RG203P	RTN	69- 23	RL21P	RTN	97- 42	RM241P	RTN	77- 71	S1281A	SIC	44- 15	SD303CJ	♦SSS	69-110
RG210P	RTN	53- 72	RL22P	RTN	97- 43	RM241Q	RTN	76- 28	S5402J	SIC	61- 98	SD311BG	♦SSS	22- 77
RG211P	RTN	53- 73	RL23P	RTN	97- 44	RM246	RTN	48- 4	S5440J	SIC	64- 41	SD311BJ	♦SSS	22- 78
RG212P	RTN	53- 74	RL30P	RTN	97- 45	RM246P	RTN	77- 72	S5490F	♦SIC	42- 56	SD311CG	♦SSS	22- 79
RG213P	RTN	53- 75	RL31P	RTN	97- 46	RM261P	RTN	77- 73	S5492F	♦SIC	44- 7	SD311CJ	♦SSS	22- 80
RG220P	RTN	69- 24	RL32P	RTN	97- 47	RM261Q	RTN	76- 29	S5493F	♦SIC	44- 8	SD312BG	♦SSS	22- 35
RG221P	RTN	69- 25	RL33P	RTN	97- 48	RM261T	RTN	76- 30	S8280J	SIC	44-100	SD312BJ	♦SSS	22- 36
RG222P	RTN	69- 26	RL40P	RTN	107- 54	RM266P	RTN	77- 74	S8281J	SIC	44- 20	SD312CG	♦SSS	22- 37
RG223P	RTN	69- 27	RL41P	RTN	107- 55	RM286P	RTN	67- 59	S11001	TSC	107- 89	SD312CJ	♦SSS	22- 38
RG230P	RTN	53- 76	RL42P	RTN	107- 56	RM288J	♦RTN	92- 2	S11004	TSC	107- 90	SD321BG	♦SSS	70- 1
RG231P	RTN	53- 77	RL43P	RTN	107- 57	RM288P	RTN	92- 3	S11008	TSC	107- 91	SD321BJ	♦SSS	70- 2
RG232P	RTN	53- 78	RL60P	RTN	107- 58	RM288Q	♦RTN	92- 4	S41001	TSC	107- 92	SD321CG	♦SSS	70- 3
RG233P	RTN	53- 79	RL61P	RTN	107- 59	RM296P	RTN	67- 60	S41008	TSC	107- 93	SD321CJ	♦SSS	70- 4
RG240P	RTN	69- 28	RL62P	RTN	107- 60	RM930D	RTN	77- 75	S113353	♦EEC	40- 89	SD322BG	♦SSS	70- 5
RG241P	RTN	69- 29	RL63P	RTN	107- 61	RM930P	RTN	77- 76	SA337	♦EMC	97- 98	SD322BJ	♦SSS	70- 6
RG242P	RTN	69- 30	RL70P	RTN	107- 62	RM932D	RTN	77- 77	SA357	♦EMC	97- 93	SD322CG	♦SSS	70- 7
RG243P	RTN	69- 31	RL71P	RTN	107- 63	RM932P	RTN	77- 78	SA367	♦EMC	97- 99	SD322CJ	♦SSS	70- 8
RG250P	RTN	53- 80	RL72P	RTN	107- 64	RM933D	RTN	86- 12	SAS101	♦SIEG	111- 85	SD323BG	♦SSS	70- 9
RG251P	RTN	53- 81	RL73P	RTN	107- 65	RM933P	RTN	86- 13	SAS111	♦SIEG	111- 86	SD323BJ	♦SSS	70- 10
RG252P	RTN	53- 82	RL141K	♦RTN	44- 10	RM934D	RTN	100- 46	SAS121	♦SIEG	111- 87	SD323CG	♦SSS	70- 11
RG253P	RTN	53- 83	RL143K	♦RTN	44- 11	RM934P	RTN	100- 47	SAS131	♦SIEG	111- 88	SD323CJ	♦SSS	70- 12
RG260P	RTN	69- 32	RL151K	♦RTN	42- 57	RM935D	RTN	100- 48	SAS141	♦SIEG	111- 89	SD324BG	♦SSS	70- 13
RG261P	RTN	69- 33	RL153K	♦RTN	42- 58	RM935P	RTN	100- 49	SAS151	♦SIEG	111- 90	SD324BJ	♦SSS	70- 14
RG262P	RTN	69- 34	RL163K	♦RTN	43- 97	RM936D	RTN	100- 50	SB31	♦CLC	89- 20	SD324CG	♦SSS	70- 15
RG263P	RTN	69- 35	RL173K	♦RTN	42- 50	RM936P	RTN	100- 51	SB32	CLC	89- 32	SD324CJ	♦SSS	70- 16
RG270P	RTN	53- 84	RL181K	♦RTN	43- 98	RM937D	RTN	100- 52	SB34	CLC	90- 37	SD325BG	♦SSS	70- 17
RG271P	RTN	53- 85	RL183K	♦RTN	44- 6	RM937P	RTN	100- 53	SBC1	CLC	43- 44	SD325BJ	♦SSS	70- 18
RG272P	RTN	53- 86	RL191K	♦RTN	42- 53	RM940D	RTN	100- 54	SBC21	CLC	43- 19	SD325CG	♦SSS	70- 19
RG273P	RTN	53- 87	RL193K	♦RTN	42- 54	RM940P	RTN	100- 55	SC100	GIC	95- 41	SD325CJ	♦SSS	70- 20
RG280P	RTN	51- 91	RL3002D	RTN	107- 66	RM941P	RTN	100- 56	SC100A	GIC	95- 42	SD326BG	♦SSS	70- 21
RG281P	RTN	51- 92	RL3002K	RTN	107- 67	RM944P	RTN	77- 79	SC101	GIC	96- 62	SD326BJ	♦SSS	70- 22
RG282P	RTN	51- 93	RM01	AMI	109- 73	RM945P	RTN	33- 40	SC108	♦SIX	102- 36	SD326CG	♦SSS	70- 23
RG283P	RTN	51- 94	RM10	♦HAS	113- 22	RM946P	RTN	77- 80	SC109	♦SIX	102- 37	SD326CJ	♦SSS	70- 24
RG290P	RTN	86- 65	RM11-1	CAM	109- 11	RM948P	RTN	33- 41	SC126	♦SIX	112- 56	SD330	♦HIS	106- 48
RG291P	RTN	86- 66	RM12	♦HAS	113- 23	RM949P	RTN	77- 81	SC126AL	SIX	112- 28	SD331BG	♦SSS	84- 85
RG292P	RTN	86- 67	RM13	♦HAS	113- 24	RM950P	RTN	30- 62	SC126CL	SIX	112- 29	SD331BJ	♦SSS	84- 86
RG293P	RTN	86- 68	RM14	HAS	107- 68	RM951P	RTN	91- 97	SC127AL	SIX	112- 30	SD331CG	♦SSS	84- 87
RG300P	RTN	53- 88	RM17	HAS	107- 69	RM957P	RTN	67- 61	SC150	♦SIX	111- 83	SD331CJ	♦SSS	84- 88
RG301P	RTN	53- 89	RM19	HAS	107- 70	RM958P	RTN	67- 62	SC426	♦SIX	112- 57	SD341BG	♦SSS	83- 23
RG302P	RTN	53- 90	RM21-1	CAM	109- 86	RM961P	RTN	77- 82	SC450	♦SIX	111- 84	SD341BJ	♦SSS	83- 24
RG303P	RTN	53- 91	RM30	♦HAS	113- 25	RM962P	RTN	77- 83	SC1169	PHIL	22- 62	SD341CG	♦SSS	83- 25
RG310P	RTN	53- 92	RM31	♦HAS	113- 26	RM963P	RTN	77- 84	SC1170	PHIL	108- 53	SD341CJ	♦SSS	83- 26
RG311P	RTN	53- 93	RM34	♦HAS	113- 27	RM988D	RTN	93- 64	SC1171	PHIL	31- 5	SD342BG	♦SSS	92- 41
RG312P	RTN	53- 94	RM44	HAS	113- 28	RM988J	RTN	93- 65	SC1174	PHIL	75- 49	SD342BJ	♦SSS	92- 42
RG313P	RTN	53- 95	RM50	HAS	107- 71	RM988P	RTN	93- 66	SCL4000D	♦SSS	61- 25	SD342CG	♦SSS	92- 43
RG320P	RTN	69- 36	RM50B	HAS	107- 72	RM988T	RTN	93- 67	SCL4000F	♦SSS	61- 26	SD342CJ	♦SSS	92- 44
RG321P	RTN	69- 37	RM53	HAS	107- 73	RM993P	RTN	21- 87	SCL4001D	♦SSS	58- 38	SD361BG	♦SSS	98-101
RG322P	RTN	69- 38	RM53B	HAS	107- 74	RM994P	RTN	21- 88	SCL4001F	♦SSS	58- 39	SD361BJ	♦SSS	98-102
RG323P	RTN	69- 39	RM55	♦HAS	112-110	RM997P	RTN	21- 89	SCL4002D	♦SSS	58- 40	SD361CG	♦SSS	98-103
RG370P	RTN	102- 56	RM56	HAS	107- 75	RM999P	RTN	21- 90	SCL4002F	♦SSS	58- 41	SD361CJ	♦SSS	98-104
RG371P	RTN	102- 57	RM56B	HAS	107- 76	RM1900D	RTN	67- 63	SCL4007D	♦SSS	113- 50	SD362BG	♦SSS	98-105
RG372P	RTN	102- 58	RM59	HAS	107- 77	RM1900J	RTN	67- 64	SCL4007F	♦SSS	113- 51	SD362BJ	♦SSS	98-106
RG373P	RTN	102- 59	RM59B	HAS	107- 78	RM1900P	RTN	67- 65	SCL4008D	SSS	97- 88	SD362CG	♦SSS	98-107
RG380P	RTN	100- 40	RM62	HAS	107- 79	RM1901D	RTN	67- 66	SCL4008F	SSS	97- 89	SD362CJ	♦SSS	98-108
RG381P	RTN	100- 41	RM62B	HAS	107- 80	RM1901J	RTN	67- 67	SCL4009D	SSS	102- 81	SD370BG	♦SSS	38- 18
RG382P	RTN	100- 42	RM65	HAS	107- 81	RM1901P	RTN	67- 68	SCL4009F	SSS	102- 82	SD370BJ	♦SSS	38- 19
RG383P	RTN	100- 43	RM65B	HAS	107- 82	RM1902D	RTN	67- 69	SCL4010D	SSS	102- 83	SD370CG	♦SSS	38- 20
RG3180P	RTN	48- 15	RM68	HAS	107- 83	RM1902J	RTN	67- 70	SCL4010F	SSS	102- 84	SD370CJ	♦SSS	38- 21
RG3200P	RTN	64- 51	RM68B	HAS	107- 84	RM1902P	RTN	67- 71	SCL4011D	♦SSS	70- 47	SD3720	♦SSS	61- 91
RG3202P	RTN	64- 52	RM71	HAS	107- 85	RM1903D	RTN	67- 72	SCL4011F	♦SSS	70- 48	SD3721	♦SSS	61- 92
RG3210P	RTN	52- 41	RM71B	HAS	107- 86	RM1903J	RTN	67- 73	SCL4012D	♦SSS	70- 49	SD3722	♦SSS	21- 28
RG3212P	RTN	52- 42	RM74	HAS	113- 29	RM1903P	RTN	67- 74	SCL4012F	♦SSS	70- 50	SD3723	♦SSS	99- 64
RG3220P	RTN	64- 53	RM74A	HAS	107- 87	RM1904D	RTN	67- 75	SCL4013D	♦SSS	38- 33	SD3730	♦SSS	61- 93
RG3222P	RTN	64- 54	RM77	♦HAS	113- 30	RM1904J	RTN	67- 76	SCL4013F	♦SSS	38- 34	SD3732	♦SSS	38- 10
RG3230P	RTN	52- 43	RM90	♦HAS	113- 1	RM1904P	RTN	67- 77	SCL4016D	SSS	111- 45	SD3741	♦SSS	61- 94
RG3232P	RTN	52- 44	RM91	♦HAS	113- 2	RM1905D	RTN	67- 78	SCL4016F	SSS	111- 46	SD3742	♦SSS	21- 29
RG3240P	RTN	64- 55	RM93	♦HAS	113- 3	RM1905J	RTN	67- 79	SCL4017D	♦SSS	43- 68	SD3744	♦SSS	21- 30
RG3242P	RTN	64- 56	RM110	HAS	113- 31	RM1905P	RTN	67- 80	SCL4017F	♦SSS	43- 69	SD3745	♦SSS	61- 95
RG3250P	RTN	52- 45	RM113	HAS	113- 32	RM4441D	♦RTN	112- 53	SCL4018D	SSS	43- 70	SD3746	♦SSS	61- 96
RG3252P	RTN	52- 46	RM114	HAS	107- 88	RM4441J	♦RTN	112- 54	SCL4018F	SSS	43- 71	SD5102	♦SSS	71- 95
RG3260P	RTN	64- 57	RM130	HAS	113- 33	RM4441T	♦RTN	112- 55	SCL4019D	SSS	52- 25	SD5600	♦SSS	111- 16
RG3262P	RTN	64- 58	RM134	HAS	113- 34	RM6172G	RTN	76- 31	SCL4019F	SSS	52- 26	SDC1	CLC	44- 83
RG3270P	RTN	52- 47	RM144	HAS	113- 35	RM6178G	RTN	76- 32	SCL4020D	SSS	43- 58	SDC21	CLC	44- 73
RG3272P	RTN	52- 48	RM155	♦HAS	113- 4	RM6179G	RTN	76- 33	SCL4020F	SSS	43- 59	SDD1	CLC	46- 95
RG3300P	RTN	52- 49	RM177	HAS	113- 36	RM6180G	RTN	82- 92	SCL5101	♦SSS	58- 78	SDN1	CLC	61- 35
RG3302P	RTN	52- 50	RM190	♦HAS	113- 5	RM6184G	RTN	76- 34	SCL5101D	♦SSS	58- 79	SDN3	CLC	71- 67
RG3310P	RTN	52- 51	RM191	♦HAS	113- 6	RM6185G	RTN	76- 35	SCL5102	♦SSS	71- 39	SDN5	CLC	71- 68
RG3312P	RTN	52- 52	RM193	♦HAS	113- 7	RM8421E	TRC	47- 1	SCL5102D	♦SSS	71- 40	SDN21	CLC	70-110
RG3320P	RTN	64- 59	RM201P	RTN	77- 59	RM8421F	TRC	47- 2	SCL5103	♦SSS	58- 80	SDN23	CLC	71- 1
RG3322P	RTN	64- 60	RM201Q	RTN	76- 24	RM8422	TRC	47- 49	SCL5103D	♦SSS	58- 81	SDN25	CLC	71- 2
RG3380P	RTN	100- 44	RM202P	RTN	30- 59	RM8422A	TRC	47- 50	SCL5104	♦SSS	71- 41	SE101	FSC	76- 13
RG3382P	RTN	100- 45	RM202Q	RTN	32- 77	RR110	♦CEQ	105- 80	SCL5104D	♦SSS	71- 42		SGAI	
RG3390P	RTN	48- 16	RM203	RTN	43- 82	RR111	♦CEQ	105- 81	SCL5105	♦SSS	58- 82	SE101G	♦SIC	80- 17
RG3392P	RTN	48- 17	RM204P	RTN	77- 60	RRFF4A2BM	SDU	105- 93	SCL5105D	♦SSS	58- 83	SE101K	♦SIC	80- 18
RG3400P	RTN	48- 18	RM204Q	RTN	80- 82	RRMFF4A2BM	SDU	105- 94	SCL5106	♦SSS	71- 43	SE102	FSC	76- 14
RG3402P	RTN	48- 19	RM205	RTN	64- 32	RS5103	TRC	31- 69	SCL5106D	♦SSS	71- 44		SGAI	
RG3410P	RTN	56-105	RM206P	RTN	77- 61	RT10	XDS	105- 82	SCL5130	♦SSS	89- 78	SE102G	♦SIC	80- 19
RG3412P	RTN	56-106	RM210P	RTN	67- 57	RT14	XDS	106- 49	SCL5132	♦SSS	89-100	SE102K	♦SIC	80- 20
RG3420P	RTN	64- 61	RM210Q	RTN	75- 59	RTC334	♦EMC	43- 54	SCL5201	♦SSS	54- 47	SE105G	♦SIC	84- 89
RG3422P	RTN	64- 62	RM211P	RTN	77- 62	RTC354	♦EMC	43- 16	SCL5201D	♦SSS	54- 48	SE105K	♦SIC	84- 90
RG3430P	RTN	64- 63	RM211Q	RTN	76- 25	RTC364	♦EMC	43- 55	SCL5206AD	♦SSS	46- 48	SE106J	♦SIC	84- 91
RG3432P	RTN	64- 64	RM212P	RTN	30- 60	RX10	XDS	105- 83	SCL5206AF	♦SSS	46- 49		SPR	
RG3440P	RTN	52- 53	RM212Q	RTN	32- 78	RX11	XDS	105- 84	SCL5401D	♦SSS	43- 46	SE110G	♦SIC	80- 30
RG3442P	RTN	52- 54	RM213P	RTN	44- 2	S8H20J	SIC	27- 8	SCL5401F	♦SSS	43- 47	SE110K	♦SIC	80- 31
RG3450P	RTN	52- 55	RM213Q	RTN	34- 56	S8H21J	SIC	27- 9	SCL5407AD	SSS	43- 35	SE111J	♦SIC	78-108
RG3452P	RTN	52- 56	RM214P	RTN	77- 63	S8H22J	SIC	26- 35	SCL5407AF	SSS	43- 36		SPR	
RG7510P	RTN	80- 70	RM214Q	RTN	80- 83	S26H	WLD	71- 59	SCL5407D	♦SSS	43- 23	SE112J	♦SIC	80- 21
RG7511P	RTN	80- 71	RM215P	RTN	23- 8	S26M	WLD	70- 99	SCL5407F	♦SSS	43- 24		SPR	
RG7512P	RTN	80- 72	RM215Q	RTN	23- 3	S34H	WLD	71- 60	SCL54004D	SSS	42- 40	SE113K	♦SIC	80- 22
RG7513P	RTN	80- 73	RM216P	RTN	77- 64	S34M	WLD	70-100	SCL54004F	SSS	42- 41	SE115G	♦SIC	80- 23

♦-Copy of mfr's data sheet
may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
Δ-Registered with JEDEC by this manufacturer

Obs-In this book

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
SE115K	♦SIC	80 - 24
SE116J	♦SIC	80 - 25
	SPR	
SE124G	♦SIC	34 - 76
SE124J	♦SIC	34 - 77
	SPR	
SE124K	♦SIC	34 - 78
SE125J	♦SIC	30 - 9
	SPR	
SE150G	♦SIC	69 - 76
SE150K	♦SIC	69 - 77
SE155J	♦SIC	69 - 71
	SPR	
SE156J	♦SIC	69 - 72
	SPR	
SE157K	♦SIC	69 - 73
SE160G	♦SIC	92 - 36
SE160K	♦SIC	92 - 37
SE161J	♦SIC	92 - 18
	SPR	
SE161K	♦SIC	92 - 38
SE162J	♦SIC	93 - 46
	SPR	
SE170J	♦SIC	80 - 26
	SPR	
SE180J	♦SIC	80 - 27
	SPR	
SE181K	♦SIC	100 - 57
SE415J	♦SIC	65 - 66
	SPR	
SE416J	♦SIC	66 - 75
	SPR	
SE417J	♦SIC	66 - 76
	SPR	
SE424J	♦SIC	34 - 6
	SPR	
SE440J	♦SIC	83 - 13
	SPR	
SE455J	♦SIC	79 - 1
	SPR	
SE470J	♦SIC	65 - 59
	SPR	
SE471J	♦SIC	65 - 39
	SPR	
SE480J	♦SIC	68 - 86
	SPR	
SE481J	♦SIC	65 - 40
	SPR	
SE490J	♦SIC	100 - 58
SE518	SIC	110 - 21
SE806J	SIC	84 - 92
	SPR	
SE808J	SIC	68 - 83
	SPR	
SE816J	SIC	68 - 84
	SPR	
SE825J	SIC	27 - 63
	SPR	
SE826J	SIC	27 - 54
	SPR	
SE840J	SIC	83 - 16
	SPR	
SE855J	SIC	68 - 85
	SPR	
SE870J	SIC	74 - 68
	SPR	
SE880J	SIC	74 - 62
	SPR	
SE1280A	SPR	42 - 61
SE1281A	SPR	44 - 16
SE1606	SIC	91 - 90
SE1606K	SIC	91 - 91
SE8162A	SPR	92 - 27
SE8162J	SPR	92 - 28
SE8280A	SPR	44 - 97
SE8280J	SPR	44 - 98
SE8281A	SPR	44 - 17
SE8281J	SPR	44 - 18
SE8415A	SPR	64 - 102
SE8415J	SPR	64 - 103
SE8416A	SPR	69 - 57
SE8416J	SPR	69 - 58
SE8417A	SPR	64 - 104
SE8417J	SPR	64 - 105
SE8424A	SPR	34 - 2
SE8424J	SPR	34 - 3
SE8440A	SPR	60 - 90
SE8440J	SPR	60 - 91
SE8455A	SPR	79 - 85
SE8455J	SPR	79 - 86
SE8470A	SPR	79 - 87
SE8470J	SPR	79 - 88
SE8471A	SPR	75 - 110
SE8471J	SPR	76 - 1
SE8480A	SPR	79 - 89
SE8480J	SPR	79 - 90
SE8481A	SPR	76 - 2
SE8481J	SPR	76 - 3
SE8731A	SPR	84 - 93
SE8731J	SPR	84 - 94
SE8806A	SPR	84 - 95
SE8806J	SPR	84 - 96
SE8808A	SPR	78 - 62
SE8808J	SPR	78 - 63
SE8816A	SPR	78 - 64
SE8816J	SPR	78 - 65
SE8825A	SPR	27 - 61
SE8825J	SPR	27 - 62
SE8826A	SPR	27 - 47
SE8826J	SPR	27 - 48
SE8828A	SPR	91 - 50
SE8828J	SPR	91 - 51
SE8840A	SPR	60 - 38
SE8840J	SPR	60 - 39
SE8855A	SPR	68 - 60
SE8855J	SPR	68 - 61
SE8870A	SPR	68 - 62
SE8870J	SPR	68 - 63
SE8880A	SPR	68 - 64
SE8880J	SPR	68 - 65
SF10#1	SYL	32 - 2
SF10#2	SYL	32 - 3
SF11#1	SYL	32 - 4
SF11#2	SYL	32 - 5
SF12#1	SYL	32 - 6
SF12#2	SYL	32 - 7
SF13#1	SYL	32 - 8
SF13#2	SYL	32 - 9
SF20#1	SYL	34 - 97
SF20#2	SYL	34 - 98
SF21#1	SYL	34 - 99
SF21#2	SYL	34 - 100
SF22#1	SYL	34 - 101
SF22#2	SYL	34 - 102
SF23#1	SYL	34 - 103
SF23#2	SYL	34 - 104
SF30	♦SYL	34 - 31
SF31	♦SYL	34 - 32
SF32	♦SYL	34 - 33
SF33	♦SYL	34 - 34
SF50	♦SYL	24 - 54
SF51	♦SYL	24 - 55
SF52	♦SYL	24 - 56
SF53	♦SYL	24 - 57
SF60	♦SYL	28 - 89
SF61	♦SYL	28 - 90
SF62	♦SYL	28 - 91
SF63	♦SYL	28 - 92
SF100	♦SYL	26 - 2
SF101	♦SYL	26 - 3
SF102	♦SYL	26 - 4
SF103	♦SYL	26 - 5
SF110	♦SYL	26 - 6
SF111	♦SYL	26 - 7
SF112	♦SYL	26 - 8
SF113	♦SYL	26 - 9
SF120	♦SYL	26 - 64
SF121	♦SYL	26 - 65
SF122	♦SYL	26 - 66
SF123	♦SYL	26 - 67
SF130	♦SYL	26 - 68
SF131	♦SYL	26 - 69
SF132	♦SYL	26 - 70
SF133	♦SYL	26 - 71
SF200	♦SYL	29 - 96
SF201	♦SYL	29 - 97
SF202	♦SYL	29 - 98
SF203	♦SYL	29 - 99
SF210	♦SYL	29 - 100
SF211	♦SYL	29 - 101
SF212	♦SYL	29 - 102
SF213	♦SYL	29 - 103
SF250#1	SYL	29 - 30
SF250#2	SYL	29 - 31
SF251#1	SYL	29 - 32
SF251#2	SYL	29 - 33
SF252#1	SYL	29 - 34
SF252#2	SYL	29 - 35
SF253#1	SYL	29 - 36
SF253#2	SYL	29 - 37
SF260#1	SYL	29 - 38
SF260#2	SYL	29 - 39
SF261#1	SYL	29 - 40
SF261#2	SYL	29 - 41
SF262#1	SYL	29 - 42
SF262#2	SYL	29 - 43
SF263#1	SYL	29 - 44
SF263#2	SYL	29 - 45
SFC101	THCF	64 - 42
SFC102	THCF	64 - 43
SFC103	THCF	64 - 44
SFC104	THCF	30 - 12
SFC105	THCF	84 - 22
SFC200	♦THCF	85 - 43
SFC207	♦THCF	57 - 91
SFC209	♦THCF	57 - 92
SFC210	♦THCF	57 - 93
SFC211	♦THCF	57 - 94
SFC212	♦THCF	83 - 4
SFC214	♦THCF	57 - 95
SFC215	♦THCF	57 - 96
SFC221	♦THCF	85 - 44
SFC301	♦NPC	79 - 73
	♦THCF	
SFC301M	♦THCF	69 - 43
SFC301PM	♦THCF	69 - 44
SFC305	♦NPC	86 - 74
	♦THCF	
SFC305M	♦THCF	86 - 70
SFC305PM	♦THCF	86 - 71
SFC309	♦NPC	86 - 75
	♦THCF	
SFC309M	♦THCF	86 - 72
SFC309PM	♦THCF	86 - 73
SFC310	♦NPC	79 - 74
	♦THCF	
SFC310M	♦THCF	69 - 45
SFC310PM	♦THCF	69 - 46
SFC315	♦NPC	79 - 75
	♦THCF	
SFC315M	♦THCF	69 - 47
SFC315PM	♦THCF	69 - 48
SFC323	♦NPC	23 - 25
	♦THCF	
SFC323M	♦THCF	23 - 70
SFC323PM	♦THCF	23 - 71
SFC324	♦NPC	34 - 35
	♦THCF	
SFC324M	♦THCF	34 - 7
SFC324PM	♦THCF	34 - 8
SFC330	♦NPC	79 - 76
	♦THCF	
SFC330M	♦THCF	69 - 49
SFC330PM	♦THCF	69 - 50
SFC331	♦NPC	79 - 77
	♦THCF	
SFC331M	♦THCF	69 - 51
SFC331PM	♦THCF	69 - 52
SFC350	♦NPC	79 - 78
	♦THCF	
SFC350M	♦THCF	69 - 53
SFC350PM	♦THCF	69 - 54
SFC760E	♦THCF	64 - 65
SFC761E	♦THCF	59 - 42
SFC763E	THCF	21 - 37
SFC770E	♦THCF	64 - 66
SFC771E	♦THCF	64 - 67
SFF2M	♦SCI	37 - 77
SFF2Z	♦SCI	37 - 74
SG40	♦SYL	82 - 22
SG41	♦SYL	82 - 23
SG42	♦SYL	82 - 24
SG43	♦SYL	82 - 25
SG50	♦SYL	55 - 36
SG51	♦SYL	55 - 37
SG52	♦SYL	55 - 38
SG53	♦SYL	55 - 39
SG60	♦SYL	82 - 26
SG61	♦SYL	82 - 27
SG62	♦SYL	82 - 28
SG63	♦SYL	82 - 29
SG70	♦SYL	53 - 15
SG71	♦SYL	53 - 16
SG72	♦SYL	53 - 17
SG73	♦SYL	53 - 18
SG80	♦SYL	104 - 67
SG81	♦SYL	104 - 68
SG82	♦SYL	104 - 69
SG83	♦SYL	103 - 61
SG90	♦SYL	83 - 94
SG91	♦SYL	83 - 95
SG92	♦SYL	83 - 96
SG93	♦SYL	83 - 97
SG100	♦SYL	55 - 40
SG101	♦SYL	55 - 41
SG102	♦SYL	55 - 42
SG103	♦SYL	55 - 43
SG110	♦SYL	55 - 44
SG111	♦SYL	55 - 45
SG112	♦SYL	55 - 46
SG113	♦SYL	55 - 47
SG120	♦SYL	82 - 30
SG121	♦SYL	82 - 31
SG122	♦SYL	82 - 32
SG123	♦SYL	82 - 33
SG130	♦SYL	82 - 34
SG131	♦SYL	82 - 35
SG132	♦SYL	82 - 36
SG133	♦SYL	82 - 37
SG140	♦SYL	82 - 38
SG141	♦SYL	82 - 39
SG142	♦SYL	82 - 40
SG143	♦SYL	82 - 41
SG150	♦SYL	88 - 13
SG151	♦SYL	88 - 14
SG152	♦SYL	88 - 15
SG153	♦SYL	88 - 16
SG170	♦SYL	88 - 17
SG171	♦SYL	88 - 18
SG172	♦SYL	88 - 19
SG173	♦SYL	88 - 20
SG180	♦SYL	88 - 21
SG181	♦SYL	88 - 22
SG182	♦SYL	88 - 23
SG183	♦SYL	88 - 24
SG190	♦SYL	82 - 42
SG191	♦SYL	82 - 43
SG192	♦SYL	82 - 44
SG193	♦SYL	82 - 45
SG200	♦SYL	79 - 69
SG201	♦SYL	79 - 70
SG202	♦SYL	79 - 71
SG203	♦SYL	79 - 72
SG210	♦SYL	52 - 101
SG211	♦SYL	52 - 102
SG212	♦SYL	52 - 103
SG213	♦SYL	52 - 104
SG220	♦SYL	79 - 41
SG221	♦SYL	79 - 42
SG222	♦SYL	79 - 43
SG223	♦SYL	79 - 44
SG230	♦SYL	88 - 80
SG231	♦SYL	88 - 81
SG232	♦SYL	88 - 82
SG233	♦SYL	88 - 83
SG240	♦SYL	79 - 45
SG241	♦SYL	79 - 46
SG242	♦SYL	79 - 47
SG243	♦SYL	79 - 48
SG250	♦SYL	52 - 105
SG251	♦SYL	52 - 106
SG252	♦SYL	52 - 107
SG253	♦SYL	52 - 108
SG260	♦SYL	79 - 49
SG261	♦SYL	79 - 50
SG262	♦SYL	79 - 51
SG263	♦SYL	79 - 52
SG270	♦SYL	88 - 67
SG271	♦SYL	88 - 68
SG272	♦SYL	88 - 69
SG273	♦SYL	88 - 70
SG280	♦SYL	52 - 19
SG281	♦SYL	52 - 20
SG282	♦SYL	52 - 21
SG283	♦SYL	52 - 22
SG290	♦SYL	86 - 54
SG291	♦SYL	86 - 55
SG292	♦SYL	86 - 56
SG293	♦SYL	86 - 57
SG300	♦SYL	52 - 109
SG301	♦SYL	52 - 110
SG302	♦SYL	53 - 1
SG303	♦SYL	53 - 2
SG310	♦SYL	53 - 3
SG311	♦SYL	53 - 4
SG312	♦SYL	53 - 5
SG313	♦SYL	53 - 6
SG320	♦SYL	65 - 60
SG321	♦SYL	65 - 61
SG322	♦SYL	65 - 62
SG323	♦SYL	65 - 63
SH0062	FSC	105 - 74
	SGAI	
SHA-I	ANA	106 - 72
SHA-II	ANA	106 - 73
SHAIII	♦ANA	108 - 108
SHAIV	♦ANA	108 - 109
SI30	♦HIS	47 - 18
SI830	♦SIX	77 - 85
SI831	♦SIX	27 - 28
SI832	♦SIX	67 - 95
SI833	♦SIX	86 - 20
SI844	♦SIX	67 - 96
SI845	♦SIX	27 - 29
SI846	♦SIX	77 - 105
SI846F	SIX	77 - 86
SI848	♦SIX	33 - 42
SI862	♦SIX	77 - 87
SI930	♦SIX	77 - 88
SI930D	SIX	80 - 59
SI931	♦SIX	27 - 30
SI931D	SIX	27 - 18
SI932	♦SIX	67 - 97
SI932D	SIX	80 - 60
SI933	♦SIX	86 - 21
SI933D	SIX	86 - 79
SI944	♦SIX	67 - 98
SI944D	SIX	80 - 61
SI945	♦SIX	27 - 31
SI945D	SIX	31 - 61
SI946	♦SIX	77 - 106
SI946D	SIX	80 - 62
SI946F	SIX	77 - 89
SI948	♦SIX	33 - 43
SI948D	SIX	30 - 19
SI962	♦SIX	77 - 90
SI962D	SIX	80 - 63
SI3002	♦SIX	111 - 27
SI3002A	♦SIX	111 - 28
SI4001I	SIX	104 - 80
SI4001M	SIX	104 - 81
SI4002I	SIX	104 - 82
SI4002M	SIX	104 - 83
SLD1	CLC	104 - 97
SLD2	CLC	104 - 98
SLD3	CLC	104 - 99
SLD4	CLC	104 - 100
SM10	♦SYL	97 - 49
SM11	♦SYL	97 - 50
SM12	♦SYL	97 - 51
SM13	♦SYL	97 - 52
SM20	♦SYL	97 - 53
SM21	♦SYL	97 - 54
SM22	♦SYL	97 - 55
SM23	♦SYL	97 - 56
SM30	♦SYL	97 - 57
SM31	♦SYL	97 - 58
SM32	♦SYL	97 - 59
SM33	♦SYL	97 - 60
SM40	♦SYL	97 - 61
SM41	♦SYL	97 - 62
SM42	♦SYL	97 - 63
SM43	♦SYL	97 - 64
SM50#1	SYL	110 - 82
SM50#2	SYL	110 - 83
SM51#1	SYL	110 - 84
SM51#2	SYL	110 - 85
SM52#1	SYL	110 - 86
SM52#2	SYL	110 - 87
SM53#1	SYL	110 - 88
SM53#2	SYL	110 - 89
SM60	♦SYL	110 - 66
SM61	♦SYL	110 - 67
SM62	♦SYL	110 - 68
SM63	♦SYL	110 - 69
SM70	♦SYL	110 - 70
SM71	♦SYL	110 - 71
SM72	♦SYL	110 - 72
SM73	♦SYL	110 - 73
SM82	♦SYL	110 - 22
SM83	♦SYL	110 - 23
SM90	♦SYL	111 - 11
SM91	♦SYL	111 - 12
SM92	♦SYL	111 - 13
SM93	♦SYL	111 - 14
SM123-02	♦SYL	107 - 94
SM123-03	♦SYL	107 - 95
SM133-02	♦SYL	107 - 96
SM133-03	♦SYL	107 - 97
SMC1	CLC	39 - 71
SMC1X	CLC	40 - 97
SMC3	CLC	39 - 72
SMCX	CLC	40 - 95
SMD1	CLC	46 - 30
SMD21	CLC	46 - 24
SN54H00	TII	66 - 77
SN54H00F	♦TII	66 - 78
	♦TIIB	
SN54H10F	♦TII	66 - 79
	♦TIIB	
SN54H11F	♦TII	48 - 44
	♦TIIB	
SN54H20	TII	66 - 80
SN54H20F	♦TII	66 - 81
	♦TIIB	
SN54H21	TII	48 - 45
SN54H21F	♦TII	48 - 46
	♦TIIB	
SN54H30F	♦TII	66 - 82
	♦TIIB	
SN54H40F	♦TII	66 - 83
	♦TIIB	
SN54H50F	♦TII	59 - 99
	♦TIIB	
SN54H51F	♦TII	59 - 100
SN54H52F	♦TII	55 - 95
	♦TIIB	
SN54H53F	♦TII	59 - 101
	♦TIIB	
SN54H54F	♦TII	59 - 102
SN54H55F	♦TII	59 - 103
	♦TIIB	
SN54H60F	♦TII	85 - 96
	♦TIIB	
SN54H61F	♦TII	85 - 97
	♦TIIB	
SN54H62F	♦TII	85 - 98
	♦TIIB	
SN54H71	TII	29 - 60
SN54H71F	♦TII	25 - 29
	♦TIIB	
SN54H72	TII	29 - 61
SN54H72F	♦TII	25 - 30
	♦TIIB	
SN54H73F	♦TII	25 - 31
SN54H78F	♦TII	25 - 32
SN54L00R	♦NSC	66 - 28
	♦TII	
SN54L01J	TII	66 - 23
	TIIB	
SN54L01N	TII	66 - 24
	TIIB	
SN54L10R	♦NSC	66 - 29
	♦TII	
SN54L20R	♦NSC	66 - 30
	♦TII	
SN54L30R	♦TII	66 - 31
SN54L51R	♦TII	59 - 72
SN54L54R	♦TII	59 - 73
SN54L55R	♦TII	59 - 74
SN54L71R	♦NSC	33 - 8
	♦TII	
SN54L85N	TII	107 - 98
	TIIB	
SN54L98N	TII	107 - 99
	TIIB	
SN54L153N	TII	107 - 100
	TIIB	
SN54L192N	♦TII	44 - 94
	TIIB	
SN54L193N	♦TII	43 - 96
	TIIB	
SN54LS83N	TII	97 - 65
	TIIB	
SN74H00	TII	66 - 84
SN74H00F	♦TII	66 - 85
	♦TIIB	
SN74H10F	♦TII	66 - 86
	♦TIIB	
SN74H11F	♦TII	48 - 47
	♦TIIB	
SN74H20	TII	66 - 87
SN74H20F	♦TII	66 - 88
	♦TIIB	
SN74H21	TII	48 - 48
SN74H21F	♦TII	48 - 49
	♦TIIB	
SN74H30F	♦TII	66 - 89
	♦TIIB	
SN74H40F	♦TII	66 - 90
	♦TIIB	
SN74H50F	♦TII	59 - 104
	♦TIIB	
SN74H51F	♦TII	59 - 105
SN74H52F	♦TII	55 - 96
	♦TIIB	
SN74H53F	♦TII	59 - 106
	♦TIIB	
SN74H54F	♦TII	59 - 107
SN74H55F	♦TII	59 - 108
	♦TIIB	
SN74H60F	♦TII	85 - 99
	♦TIIB	
SN74H61F	♦TII	85 - 100
	♦TIIB	
SN74H62F	♦TII	85 - 101
	♦TIIB	
SN74H71	TII	29 - 62
SN74H71F	♦TII	25 - 33
	♦TIIB	
SN74H72	TII	29 - 63
SN74H72F	♦TII	25 - 34
	♦TIIB	
SN74H73F	♦TII	25 - 35
SN74H78F	♦TII	25 - 36
SN74L00R	♦NSC	66 - 32
	♦TII	
SN74L01J	TII	66 - 25
	TIIB	

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.   Cur-In current D.A.T.A.BOOK   Obs-In this book
Δ-Registered with JEDEC by this manufacturer

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
SN74L01N	TII	66-26
	TIIB	
SN74L10R	♦NSC	66-33
	♦TII	
SN74L20R	♦NSC	66-34
	♦TII	
SN74L30R	♦TII	66-35
SN74L51R	♦TII	59-75
SN74L54R	♦TII	59-76
SN74L55R	♦TII	59-77
SN74L71R	♦NSC	33-9
	♦TII	
SN74LS196W	TII	42-63
	TIIB	
SN74LS197W	TII	42-64
	TIIB	
SN336A	♦TII	107-101
SN337A	♦TII	30-82
	TIIB	
SN340A	♦TII	95-14
SN341A	♦TII	69-90
	TIIB	
SN343A	♦TII	99-13
	TIIB	
SN344A	♦TII	100-59
	TIIB	
SN346A	♦TII	99-6
	TIIB	
SN347A	♦TII	69-91
	TIIB	
SN348A	♦TII	58-77
SN354A	♦TII	107-102
SN355A	♦TII	95-15
SN359A	♦TII	69-92
	TIIB	
SN510A	TII	33-28
	TIIB	
SN511A	TII	35-44
	TIIB	
SN512A	TII	76-15
	TIIB	
SN513A	TII	75-67
	TIIB	
SN514A	TII	76-16
	TIIB	
SN516A	TII	75-57
	TIIB	
SN517A	TII	107-103
	TIIB	
SN518A	TII	91-100
	TIIB	
SN1005	TII	91-84
	TIIB	
SN1500	TII	87-65
SN1501	TII	80-94
SN1502	TII	82-91
SN1503	TII	80-95
SN1504	TII	80-96
SN1505	TII	80-97
SN1510	TII	34-14
SN1511	TII	27-11
SN1512	TII	31-91
SN1513	TII	27-19
SN1514	TII	93-43
SN1580	TII	54-101
SN1580P	TII	54-102
SN1581	TII	83-57
SN1581P	TII	83-58
SN1582	TII	83-59
SN1582P	TII	83-60
SN1583	TII	83-61
SN1583P	TII	83-62
SN1584	TII	83-63
SN1584P	TII	83-64
SN1585	TII	83-65
SN1585P	TII	83-66
SN1590	TII	27-20
SN1590P	TII	27-21
SN1591	TII	27-22
SN1591P	TII	27-23
SN1592	TII	21-11
SN1592P	TII	21-12
SN1593	TII	27-24
SN1593P	TII	27-25
SN1594	TII	93-44
SN1594P	TII	93-45
SN5101	TII	33-27
	TIIB	
SN5111	TII	35-31
	TIIB	
SN5161	TII	65-7
	TIIB	
SN5162	TII	75-58
	TIIB	
SN5191	TII	83-107
	TIIB	
SN5400	♦TII	76-75
	♦TIIB	
SN5401	♦TII	66-91
	♦TIIB	
SN5402	♦TII	58-4
	♦TIIB	
SN5410	♦TII	76-76
	♦TIIB	
SN5410J	NSC	66-92
SN5420	♦TII	76-77
	♦TIIB	
SN5430	♦TII	76-78
	♦TIIB	
SN5440	♦TII	76-79
	♦TIIB	
SN5440J	NSC	66-93
SN5441N	NSC	46-81
	TII	

TYPE No.	MFRS	Pg&Line
SN5446	TII	47-63
SN5447	TII	47-64
SN5448	TII	47-65
SN5449	TII	47-66
SN5450	♦TII	59-109
	♦TIIB	
SN5451	♦TII	59-110
	♦TIIB	
SN5453	♦TII	60-1
	♦TIIB	
SN5460	♦TII	85-102
	♦TIIB	
SN5470	♦TII	29-48
	♦TIIB	
SN5472	♦TII	28-70
	♦TIIB	
SN5473	NSC	24-10
♦TII	♦TIIB	
SN5480	♦TII	97-66
SN5482	TII	97-67
	♦TIIB	
SN5490	NSC	42-83
TII	TIIB	
SN5492J	NSC	44-54
SN5493	TII	44-51
SN5493J	NSC	44-9
SN7000	TII	56-45
SN7001	TII	56-46
SN7301N	TII	22-93
SN7302N	TII	22-94
SN7304N	TII	21-31
SN7311N	TII	80-32
SN7320N	TII	86-23
SN7331N	TII	80-33
SN7400	♦TII	66-94
	♦TIIB	
SN7400P	TII	66-16
SN7401	♦TII	66-95
	♦TIIB	
SN7402	♦TII	58-5
	♦TIIB	
SN7410	♦TII	66-96
	♦TIIB	
SN7410J	NSC	66-97
SN7410P	TII	66-17
SN7420	♦TII	66-98
	♦TIIB	
SN7420P	TII	66-18
SN7430	♦TII	66-99
	♦TIIB	
SN7440	♦TII	66-100
	♦TIIB	
SN7440P	TII	75-69
SN7441AJ	TII	46-82
	TIIB	
SN7441N	NSC	46-83
♦TII	♦TIIB	
SN7445	TII	47-67
SN7446	TII	47-68
SN7447	TII	47-69
SN7448	TII	47-70
SN7449	TII	47-71
SN7450	♦TII	60-2
	♦TIIB	
SN7460	♦TII	85-103
	♦TIIB	
SN7470	♦TII	29-49
	♦TIIB	
SN7480	♦TII	97-68
SN7481	TII	107-104
SN7482	♦TII	97-69
	♦TIIB	
SN7484	TII	107-105
SN7490	♦TII	42-84
	♦TIIB	
SN7490J	NSC	42-85
SN7492	♦TII	44-52
	TIIB	
SN7493	♦TII	44-53
SN7495	TII	90-71
SN7495F	♦TII	90-74
SN15830L	TII	66-19
SN15846L	TII	100-60
SN17908	TII	97-70
SN17909	TII	75-68
SN17910	TII	57-71
SN17911	TII	61-62
SN17912	TII	98-39
SN17913	TII	89-71
SN17921	TII	84-97
SN54930	TII	68-11
	TIIB	
SN54932	TII	75-71
	TIIB	
SN54946	TII	68-12
	TIIB	
SN54948	♦TII	24-11
	TIIB	
SN54948N	TII	24-12
SN54962	TII	78-49
	TIIB	
SN54965	TII	68-9
	TIIB	
SN54966	TII	60-34
	TIIB	
SN74145	TII	47-72
SN74930	TII	66-20
	TIIB	
SN74932	TII	75-70
	TIIB	
SN74946	TII	66-21
	TIIB	
SN74948	♦TII	24-13
	TIIB	

TYPE No.	MFRS	Pg&Line
SN74948N	♦TII	24-14
SN74962	TII	66-22
	TIIB	
SN74965	TII	68-10
	TIIB	
SN74966	TII	60-35
	TIIB	
SND1	CLC	46-56
SND2	CLC	105-54
SOS1	CLC	93-94
SOS21	CLC	93-80
SP30	♦HIS	47-19
SP202B	♦PLSB	36-37
SP203B	♦PLSB	37-110
SP204B	♦PLSB	36-38
SP207B	♦PLSB	111-6
SP208B	♦PLSB	111-7
SP209B	♦PLSB	36-105
SP212B	♦PLSB	36-106
SP214B	♦PLSB	62-32
SP218B	♦PLSB	62-33
SP222B	♦PLSB	62-34
SP223B	♦PLSB	62-35
SP228B	♦PLSB	85-34
SP244B	♦PLSB	63-106
SP245B	♦PLSB	83-1
SP249B	♦PLSB	85-35
SP252B	PLSB	36-39
SP254B	PLSB	36-40
SP258B	PLSB	111-8
SP259B	PLSB	36-107
SP262B	PLSB	36-108
SP264B	PLSB	62-36
SP268B	PLSB	62-37
SP272B	PLSB	62-38
SP273B	PLSB	62-39
SP278B	PLSB	85-36
SP294B	PLSB	63-107
SP295B	PLSB	83-2
SP299B	PLSB	85-37
SP302B	PLSB	35-45
SP314B	PLSB	62-42
SP319B	PLSB	100-61
SP322A#	SIC	23-66
SP323B	PLSB	62-43
SP328B	PLSB	85-45
SP329B	PLSB	85-46
SP344B	PLSB	63-108
SP352B	PLSB	35-46
SP356	♦SIC	111-102
SP364B	PLSB	62-44
SP369B	PLSB	100-62
SP372B	PLSB	62-45
SP373B	PLSB	62-46
SP378B	PLSB	85-47
SP379B	PLSB	85-48
SP394B	PLSB	63-109
SP416A	SPR	66-101
SP417A	SPR	66-102
SP424A	SPR	33-50
SP440A	SPR	59-78
SP455A	SPR	68-104
SP480A	SPR	68-105
SP551B	PLSB	53-51
SP552B	PLSB	56-5
SP554B	PLSB	56-3
SP561B	PLSB	85-15
SP562B	PLSB	85-16
SP563B	PLSB	85-17
SP564B	PLSB	85-18
SP565B	PLSB	85-19
SP573B	PLSB	53-27
SP574B	PLSB	53-28
SP751A	♦PLSB	102-85
SP751B	♦PLSB	102-86
SP752A	♦PLSB	102-87
SP752B	♦PLSB	102-88
SP806A	SPR	84-98
SP808A	SPR	66-103
SP816A	SPR	66-104
SP825A	SPR	27-57
SP826A	SPR	27-43
SP840A	SPR	59-79
SP855A	SPR	66-105
SP870A	SPR	66-106
SP880A	SPR	66-107
SP1011	♦SELB	57-97
SP10101L	PLSB	56-11
SP10102L	PLSB	57-98
SP10105L	PLSB	56-12
SP10109L	PLSB	56-13
SP10110L	PLSB	53-65
SP10115L	PLSB	112-58
SP10117L	PLSB	55-92
SP10118L	PLSB	55-93
SP10119L	PLSB	55-94
SP10130L	PLSB	38-14
SP10131L	PLSB	38-52
SPD1	CLC	105-100
SQF1	CLC	28-11
SQF21	CLC	27-77
SR20	♦HIS	89-37
SR30	♦HIS	89-38
SR31	♦CLC	31-70
SR35	♦HIS	89-40
SR130	HIS	89-39
SR320	HIS	37-28
SR321	HIS	37-29
SR332	♦EMC	37-34
SR333	♦EMC	37-35
SR335	♦HIS	37-46
SR352	♦EMC	37-22
SR353	♦EMC	37-23
SR362	♦EMC	37-36

TYPE No.	MFRS	Pg&Line
SR363	♦EMC	37-37
SR802	♦EMC	90-66
SR902	EMC	90-68
SR5408	♦TRC	90-67
SRG1	CLC	54-64
SRG3	CLC	50-42
SRG21	CLC	54-44
SRG23	CLC	49-71
SS210	♦VDM	91-13
SS215	TRC	91-64
SS315	TRC	91-79
SS415	TRC	91-82
SS5506	TRC	91-80
SS5507	TRC	93-13
SSCX1	♦DAD	108-87
SSCX2	♦DAD	108-88
SSCX3	♦DAD	108-89
SSD15	TRC	91-1
SST3	CLC	104-5
SST23	CLC	103-75
ST3	♦CLC	103-77
ST3A	♦CLC	104-17
ST4	♦CLC	104-41
ST12	♦VDM	104-70
ST30	♦HIS	103-109
ST31	♦CLC	103-110
ST35	♦HIS	104-20
ST200	RTN	104-1
ST335	♦HIS	104-35
ST336	♦HIS	104-42
ST416A	SPR	66-108
ST417A	SPR	67-1
ST424A	SPR	33-51
ST440A	SPR	59-80
ST455A	SPR	68-106
ST480A	SPR	68-107
ST616A	SIC	64-68
	SPR	
ST620A	SIC	27-49
	SPR	
ST629A	SIC	34-9
	SPR	
ST631A	SIC	84-99
	SPR	
ST659A	SIC	75-105
	SPR	
ST670A	SIC	64-69
	SPR	
ST680A	SIC	64-70
	SPR	
ST806A	SPR	84-100
ST808A	SPR	67-2
ST816A	SPR	67-3
ST825A	SPR	27-58
ST826A	SPR	27-44
ST840A	SPR	59-81
ST855A	SPR	67-4
ST870A	SPR	67-5
ST880A	SPR	67-6
ST1415B	INI	104-6
ST1425B	INI	104-7
ST1514B	INI	104-8
ST1524B	INI	104-9
ST2415B	♦INI	104-43
ST2415G	INI	104-44
ST2425B	♦INI	104-45
ST2425G	INI	104-46
ST2514B	♦INI	104-10
ST2514G	INI	104-11
ST2524B	♦INI	104-12
ST2524G	INI	104-13
ST5501	TRC	104-2
ST8204	TRC	103-74
ST8304	TRC	103-81
ST8404	TRC	104-47
SU300G	♦SIC	84-101
SU300K	♦SIC	84-102
	SPR	
SU305G	♦SIC	48-81
SU305K	♦SIC	48-82
	SPR	
SU306G	♦SIC	48-83
SU306K	♦SIC	48-84
	SPR	
SU314G	♦SIC	58-15
SU314K	♦SIC	58-16
	SPR	
SU315G	♦SIC	58-17
SU315K	♦SIC	58-18
	SPR	
SU316G	♦SIC	58-19
SU316K	♦SIC	58-20
	SPR	
SU320G	♦SIC	22-91
SU320K	♦SIC	22-92
	SPR	
SU331G	♦SIC	53-66
SU331K	♦SIC	53-67
	SPR	
SU332G	♦SIC	53-68
SU332K	♦SIC	53-69
	SPR	
SUF1	CLC	30-1
SUF3	CLC	30-2
SUF21	CLC	29-107
SUF23	CLC	29-108
SW727-1D	SWM	84-103
SW727-2D	SWM	84-104
SW728-1D	SWM	93-41
SW728-2D	SWM	93-42
SW729-1D	SWM	104-84
SW729-2D	SWM	104-85
SW930-1D	SWM	65-110
SW930-2D	SWM	66-1

TYPE No.	MFRS	Pg&Line
SW931F	SWM	36-28
SW931S	SWM	36-29
SW932-1D	SWM	66-2
SW932-2D	SWM	66-3
SW933-1D	SWM	84-105
SW933-2D	SWM	84-106
SW936-1D	SWM	100-63
SW936-2D	SWM	100-64
SW937-1D	SWM	100-65
SW937-2D	SWM	100-66
SW944-1D	SWM	66-4
SW944-2D	SWM	66-5
SW945-1D	SWM	32-39
SW945-2D	SWM	32-40
SW945/948F	SWM	36-30
SW945/948S	SWM	36-31
SW946-1D	SWM	66-6
SW946-2D	SWM	66-7
SW948-1D	SWM	32-41
SW948-2D	SWM	32-42
SW949-1D	SWM	66-8
SW949-2D	SWM	66-9
SW950-1D	SWM	32-21
SW950-2D	SWM	32-22
SW951-1D	SWM	93-39
SW951-2D	SWM	93-40
SW961-1D	SWM	66-10
SW961-2D	SWM	66-11
SW962-1D	SWM	66-12
SW962-2D	SWM	66-13
SW963-1D	SWM	66-14
SW963-2D	SWM	66-15
SWF10	SWM	33-19
SWF11	SWM	33-20
SWF12	SWM	33-21
SWF13	SWM	33-22
SWF20	SWM	36-41
SWF21	SWM	36-42
SWF22	SWM	36-43
SWF23	SWM	36-44
SWF30F	SWM	34-57
SWF30S	SWM	34-58
SWF31F	SWM	34-59
SWF31S	SWM	33-58
SWF32F	SWM	33-59
SWF32S	SWM	33-60
SWF33F	SWM	33-61
SWF33S	SWM	33-62
SWF50	SWM	28-93
SWF51	SWM	28-94
SWF52	SWM	28-95
SWF53	SWM	28-96
SWF60	SWM	28-97
SWF61	SWM	28-98
SWF62	SWM	28-99
SWF63	SWM	28-100
SWF250	SWM	26-18
SWF251	SWM	26-19
SWF252	SWM	26-20
SWF253	SWM	26-21
SWF260	SWM	26-22
SWF261	SWM	26-23
SWF262	SWM	26-24
SWF263	SWM	26-25
SWG40	SWM	82-50
SWG41	SWM	82-51
SWG42	SWM	82-52
SWG43	SWM	82-53
SWG50	SWM	60-96
SWG51	SWM	60-97
SWG52	SWM	60-98
SWG53	SWM	60-99
SWG60	SWM	82-54
SWG61	SWM	82-55
SWG62	SWM	82-56
SWG63	SWM	82-57
SWG90	SWM	84-8
SWG91	SWM	84-9
SWG92	SWM	84-10
SWG93	SWM	84-11
SWG100	SWM	60-100
SWG101	SWM	60-101
SWG102	SWM	60-102
SWG103	SWM	60-103
SWG110	SWM	60-104
SWG111	SWM	60-105
SWG112	♦SWM	60-106
SWG113	SWM	60-107
SWG120	SWM	82-58
SWG121	SWM	82-59
SWG122	SWM	82-60
SWG123	SWM	82-61
SWG130	SWM	74-46
SWG131	SWM	74-47
SWG132	SWM	74-48
SWG133	SWM	74-49
SWG140	SWM	82-62
SWG141	SWM	82-63
SWG142	SWM	82-64
SWG143	SWM	82-65
SWG150	SWM	88-29
SWG151	SWM	88-30
SWG152	SWM	88-31
SWG153	SWM	88-32
SWG170	SWM	88-33
SWG171	SWM	88-34
SWG172	SWM	88-35
SWG173	SWM	88-36
SWG180	SWM	88-37
SWG181	SWM	88-38
SWG182	SWM	88-39
SWG183	SWM	88-40
SWG190	SWM	74-50
SWG191	SWM	74-51

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK Obs-In this book

Δ-Registered with JEDEC by this manufacturer

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
SWG192	SWM	74-52	T301A	♦EEC	37-78	TD32	HIS	109-19	TFF3511	♦TEC	26-104	TMC400-03	MEP	34-52
SWG193	SWM	74-53	T303	♦EEC	37-95	TD335	HIS	91-15	TFF3512F	♦TEC	38-44	TMC3162	TEC	107-106
SWG210	SWM	53-19	T308	♦EEC	58-90	TF74S112F	TEC	27-5	TFF3512P	♦TEC	38-45	TMC3163	TEC	107-107
SWG211	SWM	53-20	T309	♦EEC	50-30	TF200	RTN	32-108	TFF3513	TEC	26-105	TMC3164	TEC	107-108
SWG212	SWM	53-21	T310	♦EEC	54-54	TF202	RTN	31-24	TFF3514F	♦TEC	38-46	TMS102	SOD	108-94
SWG213	SWM	53-22	T312	♦EEC	104-4	TF401	TEC	26-88	TFF3514P	♦TEC	38-47	TMS6005JR	♦TII	111-29
SWG220	SWM	74-69	T314	♦EEC	39-74	TF402	TEC	26-89	TG31	♦CLC	59-7		TIIB	
SWG221	SWM	74-70	T315	♦EEC	58-91	TF403	TEC	26-90	TG32	♦CLC	52-36	TMS6009JR	♦TII	111-30
SWG222	SWM	74-71	T318	♦EEC	50-31	TF404	TEC	26-91	TG33	CLC	72-105		TIIB	
SWG223	SWM	74-72	T404	♦EEC	49-48	TF411	TEC	26-92	TG320	HIS	71-74	TNG3131	TEC	81-63
SWG230	SWM	88-43	T405	♦EEC	49-49	TF412	TEC	26-93	TG321	HIS	71-75	TNG3211	♦TEC	61-46
SWG231	SWM	88-44	T406	♦EEC	54-27	TF413	TEC	26-94	TG335	♦HIS	72-32	TNG3211F	♦TEC	61-47
SWG232	SWM	88-45	T407	♦EEC	54-28	TF414	TEC	26-95	TG336	HIS	72-25	TNG3212	♦TEC	61-48
SWG233	SWM	88-46	T410A	♦EEC	49-50	TF7472E	TEC	28-71	TG401	TEC	74-26	TNG3212F	♦TEC	61-49
SWG240	SWM	74-73	T411	♦EEC	49-51	TF7474E	TEC	24-65	TG402	TEC	74-27	TNG3213	♦TEC	61-50
SWG241	SWM	74-74	T412	♦EEC	54-29	TF74948E	TEC	24-15	TG403	TEC	74-28	TNG3213F	♦TEC	61-51
SWG242	SWM	74-75	T413	♦EEC	49-52	TFF3031	TEC	36-45	TG404	TEC	74-29	TNG3214	♦TEC	61-52
SWG243	SWM	74-76	T421A	♦EEC	83-40	TFF3111F	♦TEC	24-71	TG405	TEC	74-30	TNG3214F	♦TEC	61-53
SWG250	SWM	53-23	T422	♦EEC	83-41	TFF3111P	♦TEC	24-72	TG406	TEC	74-31	TNG3231	TEC	61-45
SWG251	SWM	53-24	T423A	♦EEC	83-42	TFF3112F	♦TEC	24-105	TG407	TEC	74-32	TNG3241F	♦TEC	59-48
SWG252	SWM	53-25	T424A	♦EEC	98-55	TFF3112P	♦TEC	24-106	TG408	TEC	74-33	TNG3241P	♦TEC	59-49
SWG253	SWM	53-26	T430	♦EEC	54-30	TFF3113F	♦TEC	24-73	TG411	TEC	74-34	TNG3242F	♦TEC	59-50
SWG260	SWM	74-77	T431	♦EEC	54-31	TFF3113P	♦TEC	24-74	TG412	TEC	74-35	TNG3242P	♦TEC	59-51
SWG261	SWM	74-78	T432	♦EEC	49-53	TFF3114F	♦TEC	24-107	TG413	TEC	74-36	TNG3243F	♦TEC	59-52
SWG262	SWM	74-79	T433	♦EEC	49-54	TFF3114P	♦TEC	24-108	TG414	TEC	74-37	TNG3243P	♦TEC	59-53
SWG263	SWM	74-80	T434	♦EEC	49-55	TFF3115	TEC	36-52	TG415	TEC	74-38	TNG3244F	♦TEC	59-54
SWG270	SWM	88-47	T437	♦EEC	58-72	TFF3115F	♦TEC	24-75	TG416	TEC	74-39	TNG3244P	♦TEC	59-55
SWG271	SWM	88-48	T438	♦EEC	70-109	TFF3115P	♦TEC	24-76	TG417	TEC	74-40	TNG3251F	TEC	61-54
SWG272	SWM	88-49	T439	♦EEC	49-56	TFF3116	TEC	36-53	TG418	TEC	74-41	TNG3252F	TEC	61-55
SWG273	SWM	88-50	T440	♦EEC	54-32	TFF3116F	♦TEC	24-109	TG421	TEC	74-42	TNG3253F	TEC	61-56
T100B1-16	SGAI	21-67	T441	♦EEC	97-94	TFF3116P	♦TEC	24-110	TG422	TEC	74-43	TNG3254F	TEC	61-57
T100D1-16	SGAI	21-68	T442	♦EEC	54-33	TFF3117	TEC	36-54	TG423	TEC	74-44	TNG3311F	♦TEC	77-93
T100D2-16	SGAI	21-63	T447	♦EEC	49-57	TFF3117F	♦TEC	24-77	TG424	TEC	74-45	TNG3311P	♦TEC	77-94
T101B1-16	SGAI	21-69	T448	♦EEC	49-58	TFF3117P	♦TEC	24-78	TG425	TEC	51-95	TNG3312F	♦TEC	77-95
T101B	♦EEC	33-75	T601	♦EEC	49-59	TFF3118	TEC	36-55	TG426	TEC	51-96	TNG3312P	♦TEC	77-96
T101D1-16	SGAI	21-70	T602	♦EEC	54-34	TFF3118F	♦TEC	25-1	TG427	TEC	51-97	TNG3313F	♦TEC	77-97
T101D2-16	SGAI	21-64	T604	♦EEC	37-70	TFF3118P	♦TEC	25-2	TG428	TEC	51-98	TNG3313P	♦TEC	77-98
T102A	♦EEC	33-70	T612	♦EEC	48-96	TFF3121F	♦TEC	24-79	TG431	TEC	82-46	TNG3314F	♦TEC	77-99
T102B1-16	SGAI	76-47	T613	♦EEC	49-60	TFF3121P	♦TEC	24-80	TG432	TEC	82-47	TNG3314P	♦TEC	77-100
T102D1-16	SGAI	76-48	T614	♦EEC	54-35	TFF3122F	♦TEC	25-3	TG433	TEC	82-48	TNG3331	TEC	81-64
T102D2-16	SGAI	76-36	T620	♦EEC	49-61	TFF3122P	♦TEC	25-4	TG434	TEC	82-49	TNG3341F	♦TEC	76-39
T103△	EEC	31-10	T621	♦EEC	49-62	TFF3123F	♦TEC	24-81	TG445	TEC	55-64	TNG3341P	♦TEC	76-40
T103B1-16	SGAI	59-64	T622	♦EEC	49-63	TFF3123P	♦TEC	24-82	TG446	TEC	55-65	TNG3342F	♦TEC	76-41
T103D1-16	SGAI	59-65	T623	♦EEC	54-36	TFF3124F	♦TEC	25-5	TG447	TEC	55-66	TNG3342P	♦TEC	76-42
T103D2-16	SGAI	59-43	T627	♦EEC	49-64	TFF3124P	♦TEC	25-6	TG448	TEC	55-67	TNG3343F	♦TEC	76-43
T104	♦EEC	39-37	T628	♦EEC	46-90	TFF3125	TEC	25-87	TG449	TEC	84-6	TNG3343P	♦TEC	76-44
T104B1-16	SGAI	76-49	T629	♦EEC	37-71	TFF3125F	♦TEC	24-83	TG450	TEC	84-7	TNG3344F	♦TEC	76-45
T104D1-16	SGAI	76-50	T630	♦EEC	97-92	TFF3125P	♦TEC	24-84	TG455	TEC	60-109	TNG3344P	♦TEC	76-46
T104D2-16	SGAI	76-37	T633	♦EEC	33-77	TFF3126	TEC	25-88	TG456	TEC	60-110	TNG3431	TEC	81-65
T105A	EEC	39-17	T634	♦EEC	54-37	TFF3126F	♦TEC	25-7	TG457	TEC	61-1	TNG3481L	♦TEC	77-101
T105B1-16	SGAI	76-51	T635	♦EEC	54-38	TFF3126P	♦TEC	25-8	TG458	TEC	61-2	TNG3482L	♦TEC	77-102
T105D1-16	SGAI	76-52	T637	♦EEC	49-65	TFF3127	TEC	25-89	TG461	TEC	55-68	TNG3483L	♦TEC	77-103
T105D2-16	SGAI	59-44	T638A	EEC	58-65	TFF3127F	♦TEC	24-85	TG462	TEC	55-69	TNG3484L	♦TEC	77-104
T106△	♦EEC	103-67	T639	EEC	83-34	TFF3127P	♦TEC	24-86	TG463	TEC	55-70	TNG4031	TEC	87-85
T106B1-16	SGAI	85-76	T640	EEC	83-51	TFF3128	TEC	25-90	TG464	TEC	55-71	TNG4131	TEC	81-66
T106D1-16	SGAI	85-77	T641	♦EEC	49-66	TFF3128F	♦TEC	25-9	TG807	♦EMC	73-28	TNG4211F	TEC	61-58
T106D2-16	SGAI	85-53	T642	♦EEC	54-39	TFF3128P	♦TEC	25-10	TG907	EMC	74-60	TNG4212F	TEC	61-59
T107B1-16	SGAI	76-53	T643	♦EEC	33-78	TFF3161F	♦TEC	24-87	TG5417	♦TRC	73-37	TNG4213F	TEC	61-60
T107D1-16	SGAI	76-54	T644	♦EEC	33-79	TFF3161P	♦TEC	24-88	TG7400E	TEC	67-7	TNG4214F	TEC	61-61
T107D2-16	SGAI	76-38	T645	♦EEC	58-73	TFF3162F	♦TEC	25-11	TG7401E	TEC	67-8	TNG4241F	♦TEC	59-56
T108B1-16	SGAI	59-66	T646	♦EEC	31-8	TFF3162P	♦TEC	25-12	TG7402E	TEC	58-6	TNG4241P	♦TEC	59-57
T108D1-16	SGAI	59-67	T647	♦EEC	37-90	TFF3163F	♦TEC	24-89	TG7410E	TEC	67-9	TNG4242F	♦TEC	59-58
T108D2-16	SGAI	59-45	T648	♦EEC	31-9	TFF3163P	♦TEC	24-90	TG7420E	TEC	67-10	TNG4242P	♦TEC	59-59
T109B1-16	SGAI	59-68	T650	♦EEC	49-67	TFF3164F	♦TEC	25-13	TG7430E	TEC	67-11	TNG4243F	♦TEC	59-60
T109D1-16	SGAI	59-69	T651	♦EEC	54-40	TFF3164P	♦TEC	25-14	TG7440E	TEC	67-12	TNG4243P	♦TEC	59-61
T109D2-16	SGAI	59-46	T653	♦EEC	49-68	TFF3165	TEC	25-91	TG7450E	TEC	60-3	TNG4244F	♦TEC	59-62
T110B1-16	SGAI	38-15	T654	EEC	37-12	TFF3165F	♦TEC	24-91	TG7451E	TEC	60-4	TNG4244P	♦TEC	59-63
T110D1-16	SGAI	38-16	T655A	EEC	22-44	TFF3165P	♦TEC	24-92	TG7453E	TEC	60-5	TNG4411	TEC	61-7
T112D1-16	SGAI	76-55	T657	♦EEC	102-105	TFF3166	TEC	25-92	TG7454E	TEC	60-6	TNG4412	TEC	61-8
T115B1-16	SGAI	59-70	T658	♦EEC	102-106	TFF3166F	♦TEC	25-15	TG7460E	TEC	85-104	TNG4413	TEC	61-9
T115D1-16	SGAI	59-71	T659	♦EEC	102-107	TFF3166P	♦TEC	25-16	TI200	RTN	102-15	TNG4414	TEC	61-10
T115D2-16	SGAI	59-47	T660	♦EEC	102-108	TFF3167	TEC	25-93	TIANM	WLD	102-103	TNG4441	TEC	61-3
T116B1-16	SGAI	100-67	T663	♦EEC	54-41	TFF3167F	♦TEC	24-93	TIAPM	WLD	103-27	TNG4442	TEC	61-4
T116D1-16	SGAI	100-68	T664	EEC	37-20	TFF3167P	♦TEC	24-94	TID21	♦TII	84-107	TNG4443	TEC	61-5
T116D2-16	SGAI	100-69	T801A	♦EEC	37-79	TFF3168	TEC	25-94			113-8	TNG4444	TEC	61-6
T117	♦EEC	101-27	T802	♦EEC	50-32	TFF3168F	♦TEC	25-17	TID22	♦TII	84-108	TNG5031	TEC	87-86
T118B1-16	SGAI	91-34	T803	♦EEC	54-55	TFF3168P	♦TEC	25-18			113-9	TNG5121	TEC	73-96
T118D1-16	SGAI	91-35	T805	♦EEC	58-92	TFF3173F	♦TEC	24-95	TID23	♦TII	84-109	TNG5121F	TEC	73-97
T118D2-16	SGAI	91-36	T807	♦EEC	103-30	TFF3173P	♦TEC	24-96			113-10	TNG5122	TEC	73-98
T120	♦EEC	106-4	T808	♦EEC	103-31	TFF3174F	♦TEC	25-19	TID24	♦TII	84-110	TNG5122F	TEC	73-99
T120B1-14	SGAI	21-71	T11001	TSC	36-97	TFF3174P	♦TEC	25-20			113-11	TNG5123	TEC	73-100
T120D1-14	SGAI	21-72	T11004	TSC	36-98	TFF3181	♦TEC	24-97	TID25	♦TII	113-12	TNG5123F	TEC	73-101
T120D2-14	SGAI	21-65	T11008	TSC	36-99	TFF3182	♦TEC	25-21	TID26	♦TII	113-13	TNG5124	TEC	73-102
T121	♦EEC	106-5	T41001	TSC	36-100	TFF3183	♦TEC	24-98	TID29	♦TII	113-14	TNG5124F	TEC	73-103
T121B1-14	SGAI	21-73	T41008	TSC	36-101	TFF3184	♦TEC	25-22	TID30	♦TII	113-15	TNG5131	♦TEC	81-67
T121D1-14	SGAI	21-74	TA5318	RCA	none	TFF3231	TEC	28-80	TID137N	♦TII	113-38	TNG5211F	♦TEC	69-1
T121D2-14	SGAI	21-66	Repl.by CD2155D Cur.			TFF3251F	TEC	26-96		♦TIIB		TNG5221F	♦TEC	69-2
T128	♦EEC	106-6	TA5361	RCA	61-21	TFF3251P	TEC	26-97	TID138N	♦TII	113-39	TNG5221P	♦TEC	69-3
T129	♦EEC	109-21	TA5362	RCA	33-96	TFF3252F	TEC	26-98		♦TIIB		TNG5222F	♦TEC	69-4
T130	♦EEC	106-7	TA5385	RCA	43-72	TFF3252P	TEC	26-99	TIDM155W	♦TII	113-40	TNG5222P	♦TEC	69-5
T134	♦EEC	106-24	TA5388	RCA	70-36	TFF3253F	TEC	26-100		TIIB		TNG5223F	♦TEC	69-6
T135	♦EEC	106-25	TA5455	RCA	58-30	TFF3253P	TEC	26-101	TIDM166W	♦TII	113-41	TNG5223P	♦TEC	69-7
T136	♦EEC	101-28	TA5456	RCA	58-31	TFF3254F	TEC	26-102		TIIB		TNG5224F	♦TEC	69-8
T137	♦EEC	101-29	TA5459	♦RCA	89-17	TFF3254P	TEC	26-103	TIDM168W	♦TII	113-42	TNG5224P	♦TEC	69-9
T138	♦EEC	101-30	TA5519	RCA	none	TFF3273F	♦TEC	24-99		TIIB		TNG5321F	TEC	73-104
T139	♦EEC	106-8	Repl.by CD4008D Obs.			TFF3273P	♦TEC	24-100	TIDM185W	♦TII	113-43	TNG5322F	TEC	73-105
T141	♦EEC	106-9	TA5578	RCA	none	TFF3274F	♦TEC	25-23		TIIB		TNG5323F	TEC	73-106
T156D1	SGAI	42-3	Repl.by CD4014D Cur.			TFF3274P	♦TEC	25-24	TIDM186W	♦TII	113-44	TNG5324F	TEC	73-107
T156D2	SGAI	42-1	TA5579	RCA	none	TFF3411F	♦TEC	24-101		TIIB		TNG5411F	♦TEC	69-78
T157	♦EEC	33-76	Repl.by CD4015D Cur.			TFF3411P	♦TEC	24-102	TIDM255W	♦TII	113-45	TNG5411P	♦TEC	69-79
T157D1	SGAI	42-4	TA5675V	RCA	none	TFF3412F	♦TEC	25-25		TIIB		TNG5412F	♦TEC	69-80
T157D2	SGAI	42-2	Repl.by CD4013 Obs.			TFF3412P	♦TEC	25-26	TIDM266W	♦TII	113-46	TNG5412P	♦TEC	69-81
T158D1	SGAI	42-107	TA5675W	RCA	none	TFF3413F	♦TEC	24-103		TIIB		TNG5413F	TEC	73-110
T158D2	SGAI	42-106	Repl.by CD4013D Obs.			TFF3413P	♦TEC	24-104	TIDM268W	♦TII	113-47	TNG5413P	TEC	74-1
T159D1	SGAI	47-30	TA5681V	RCA	none	TFF3414F	♦TEC	25-27		TIIB		TNG5414F	TEC	74-2
T159D2	SGAI	47-31	Repl.by CD4011 Obs.			TFF3414P	♦TEC	25-28	TIDM285W	♦TII	113-48	TNG5414P	TEC	74-3
T160D1	SGAI	89-19	TA5681W	RCA	none	TFF3441F	♦TEC	26-26		TIIB		TNG5421F	♦TEC	69-82
T160D2	SGAI	89-18	Repl.by CD4011D Obs.			TFF3441P	♦TEC	26-27	TIDM286W	♦TII	113-49	TNG5421P	♦TEC	69-83
T162	♦EEC	31-7	TA5682V	RCA	none	TFF3442F	♦TEC	26-30		TIIB		TNG5422F	♦TEC	69-84
T166	♦EEC	91-65	Repl.by CD4012 Obs.			TFF3442P	♦TEC	26-31	TM12-1	CAM	108-90	TNG5422P	♦TEC	69-85
T167	♦EEC	91-66	TA5682W	RCA	none	TFF3443F	♦TEC	26-28	TM22-1	CAM	108-91	TNG5423F	TEC	73-108
T170	♦EEC	106-26	Repl.by CD4012D Obs.			TFF3443P	♦TEC	26-29	TMC400	MEP	102-48	TNG5424F	TEC	73-109
T171	♦EEC	106-27	TAA775	INTG	41-10	TFF3444F	♦TEC	26-32	TMC400-01	MEP	59-41	TNG5511F	♦TEC	69-10
T174	♦EEC	109-22	TD02	♦ADC	110-1	TFF3444P	♦TEC	26-33	TMC400-02	MEP	93-33	TNG5511P	♦TEC	69-11

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK

△-Registered with JEDEC by this manufacturer

Obs-In this book

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
TNG5512F	♦TEC	69- 12	U5B991128	FSC	64- 1	UC741	♦CEQ	43- 26	US5438J	♦SPR	67- 13	USS5470J	SPR	24- 41
TNG5512P	♦TEC	69- 13	U5B991129	FSC	64- 2	UC841	♦CEQ	43- 51	US5452A	SPR	55- 97	USS5472A	SPR	23-105
TNG5513F	♦TEC	69- 14	U5B991228	FSC	98- 43	UC941	♦CEQ	43-104	US5452J	SPR	55- 98	USS5472J	SPR	23-106
TNG5513P	♦TEC	69- 15	U5B991328	FSC	35- 36	UC1001B	♦SPR	80- 67	US5455A	SPR	60- 7	USS5473A	SPR	23-107
TNG5514F	♦TEC	69- 16	U5B991329	FSC	35- 37	UC1002B	♦SPR	33- 57	US5455J	SPR	60- 8	USS5473J	SPR	23-108
TNG5514P	♦TEC	69- 17	U5B991428	FSC	61-106	UC1003B	♦SPR	82- 90	US5461A	SPR	85-105	USS5474A	SPR	34- 62
TNG5611F	♦TEC	69- 86	U5B991528	FSC	61-107	UC1004B	♦SPR	98- 54	US5461J	SPR	85-106	USS5474J	SPR	34- 63
TNG5611P	♦TEC	69- 87	U5B991529	FSC	64- 3	UC6000	UCC	46- 84	US5462A	SPR	85-107	USS5479A	SPR	27- 52
TNG5612F	♦TEC	69- 88	U5B992128	FSC	85- 1	UC6577UN	♦SOD	108- 54	US5462J	SPR	85-108	USS5479J	SPR	27- 53
TNG5612P	♦TEC	69- 89	U5B992328	FSC	21- 38	UC6596	♦SOD	111- 50	US5471A	SPR	25- 43	W690	DEC	99- 5
TNG6221F	♦TEC	48- 55	U5B992628	FSC	21- 39	UC6596S	♦SOD	111- 52	US5471J	SPR	25- 44	WC206D	WESY	72- 40
TNG6221P	♦TEC	48- 56	U5B992629	FSC	21- 40	UC7310	SOD	90- 18	US7421A	SPR	48- 52	WC206G	WESY	72- 41
TNG6222F	♦TEC	48- 57	U5B992728	FSC	100- 75	UC7315	SOD	90- 19	US7421J	SPR	48- 53	WC208D	WESY	103- 98
TNG6222P	♦TEC	48- 58	U5B992729	FSC	100- 76	UC7320	SOD	90- 20	US7452A	SPR	55- 99	WC208G	WESY	103- 99
TNG6223F	♦TEC	48- 59	U5F990028	FSC	100- 77	UC7577UN	♦SOD	108- 55	US7452J	SPR	55-100	WC208T	WESY	103-100
TNG6223P	♦TEC	48- 60	U5F990029	FSC	100- 78	UC7596	♦SOD	111- 51	US7455A	SPR	60- 9	WC210D	WESY	72- 42
TNG6224F	♦TEC	48- 61	U5F990328	FSC	61-108	UC7596S	♦SOD	111- 53	US7455J	SPR	60- 10	WC210G	WESY	72- 43
TNG6224P	♦TEC	48- 62	U5F990329	FSC	61-109	UD320	HIS	44-110	US7461A	SPR	85-109	WC210T	WESY	72- 44
TNG6261F	♦TEC	48- 63	U5F990428	FSC	98- 44	UD335	HIS	45- 2	US7461J	SPR	85-110	WC211T	WESY	72- 45
TNG6261P	♦TEC	48- 64	U5F990429	FSC	98- 45	UD336	HIS	45- 3	US7462A	SPR	86- 1	WC212G,T	WESY	31- 79
TNG6262F	♦TEC	48- 65	U5F990528	FSC	36- 61	UD1414B	♦INI	109- 77	US7462J	SPR	86- 2	WC213D	WESY	33- 98
TNG6262P	♦TEC	48- 66	U5F990529	FSC	36- 62	UD1424B	♦INI	109- 78	US7471A	SPR	25- 45	WC213G	WESY	33- 99
TNG6263F	♦TEC	48- 67	U5F990728	FSC	61-110	UD1514B	♦INI	109- 61	US7471J	SPR	25- 46	WC213T	WESY	33-100
TNG6263P	♦TEC	48- 68	U5F990729	FSC	62- 1	UD1524B	♦INI	109- 62	USN0940D	SPR	22- 71	WC214G#1	♦WESY	64- 71
TNG6264F	♦TEC	48- 69	U5F990828	FSC	97- 72	UD2415C	♦INI	110- 30	USN0960D	SPR	62- 21	WC214G#2	♦WESY	64- 72
TNG6264P	♦TEC	48- 70	U5F990829	FSC	97- 73	UD2425C	♦INI	110- 31	USN5472A	SPR	23-101	WC214T#1	♦WESY	64- 73
TNG6521F	♦TEC	48- 71	U5F990928	FSC	56-109	UD2515C	♦INI	110- 2	USN5472J	SPR	23-102	WC214T#2	♦WESY	64- 74
TNG6521P	♦TEC	48- 72	U5F990929	FSC	56-110	UD2525C	♦INI	110- 3	USN7400A	SPR	67- 14	WC215D	WESY	22- 74
TNG6522F	♦TEC	48- 73	U5F991028	FSC	62- 2	UD4001	♦SPR	106- 74	USN7400J	SPR	67- 15	WC215G	WESY	22- 75
TNG6522P	♦TEC	48- 74	U5F991029	FSC	62- 3	UD4024	♦SPR	112- 71	USN7401A	SPR	67- 16	WC215T	WESY	22- 76
TNG6523F	♦TEC	48- 75	U5F991128	FSC	64- 4	UD4036	♦SPR	106- 75	USN7401J	SPR	67- 17	WC216D	WESY	72- 46
TNG6523P	♦TEC	48- 76	U5F991129	FSC	64- 5	UD4037	♦SPR	112- 72	USN7402A	SPR	58- 7	WC216G	WESY	72- 47
TNG6524F	♦TEC	48- 77	U5F991228	FSC	98- 46	UD4146	♦SPR	96- 24	USN7402J	SPR	58- 8	WC217T	WESY	87- 33
TNG6524P	♦TEC	48- 78	U5F991229	FSC	98- 47	UD4156	♦SPR	96- 25	USN7410A	SPR	67- 18	WC218D	WESY	92- 8
TNG7251F	♦TEC	55-101	U5F991328	FSC	35- 38	UD4181	♦SPR	112- 99	USN7410J	SPR	67- 19	WC218T	WESY	92- 9
TNG7251P	♦TEC	55-102	U5F991329	FSC	35- 39	UF1	♦CLC	29-109	USN7420A	SPR	67- 20	WC220D	WESY	72- 48
TNG7252F	♦TEC	55-103	U5F991428	FSC	62- 4	UF1A	♦CLC	30- 3	USN7420J	SPR	67- 21	WC220G	WESY	72- 49
TNG7252P	♦TEC	55-104	U5F991429	FSC	62- 5	UF2	♦CLC	30- 5	USN7430A	SPR	67- 22	WC220T	WESY	72- 50
TNG7253F	♦TEC	55-105	U5F991528	FSC	62- 6	UF3	♦CLC	29-110	USN7430J	SPR	67- 23	WC221G	WESY	64- 75
TNG7253P	♦TEC	55-106	U5F991529	FSC	64- 6	UF3A	♦CLC	30- 4	USN7440A	SPR	67- 24	WC221T	WESY	72- 51
TNG7254F	♦TEC	55-107	U5F992628	FSC	21- 41	UF4	♦CLC	30- 6	USN7440J	SPR	67- 25	WC224D	WESY	72- 52
TNG7254P	♦TEC	55-108	U5F992629	FSC	21- 42	UF20	♦HIS	35- 71	USN7450A	SPR	60- 11	WC224G	WESY	72- 53
TNG7711F	♦TEC	60- 40	U6A909756	FSC	21-109	UF21	CLC	29-106	USN7450J	SPR	60- 12	WC224T	WESY	72- 54
TNG7711P	♦TEC	60- 41	U6A909956	FSC	21-110	UF23	CLC	29-105	USN7451A	SPR	60- 13	WC225D	WESY	23- 51
TNG7712F	♦TEC	60- 42	U6A962451	FSC	98-109	UF30	♦HIS	35- 98	USN7451J	SPR	60- 14	WC225G	WESY	23- 52
TNG7712P	♦TEC	60- 43	U6A962459	FSC	98-110	UF35	♦HIS	36- 11	USN7453A	SPR	60- 15	WC226D	WESY	72- 55
TNG7811F	♦TEC	60- 44	U6A962551	FSC	99- 1	UF130	HIS	35- 94	USN7453J	SPR	60- 16	WC226G	WESY	72- 56
TNG7811P	♦TEC	60- 45	U6A962559	FSC	99- 2	UF335	♦HIS	31- 54	USN7454A	SPR	60- 17	WC227D	WESY	87- 34
TNG7812F	♦TEC	60- 46	U8A990028	FSC	100- 79	UF5105	♦TRC	27- 16	USN7454J	SPR	60- 18	WC227G	WESY	87- 35
TNG7812P	♦TEC	60- 47	U8A990029	FSC	100- 80	UFF2M	♦SCI	32-110	USN7460A	SPR	86- 3	WC231D	WESY	72- 57
TO200	RTN	92-101	U8A990328	FSC	62- 7	UFF2Z	♦SCI	32- 97	USN7460J	SPR	86- 4	WC231G	WESY	72- 58
TSA3724	TSC	113- 53	U8A990329	FSC	62- 8	UHC037	SPR	112- 73	USN7470A	SPR	24- 38	WC231T	WESY	72- 59
TSA3725	♦TSC	113- 52	U8A990428	FSC	98- 48	UI110	HIS	105- 31	USN7470J	SPR	24- 39	WC234D	WESY	72- 60
TTuL103	FSC	78-109	U8A990429	FSC	98- 49	UI130	HIS	105- 32	USN7473A	SPR	23-103	WC234G	WESY	72- 61
	SGAI		U8A990528	FSC	36- 63	UI131	HIS	104- 71	USN7473J	SPR	23-104	WC234T	WESY	72- 62
TTuL104	FSC	78-110	U8A990529	FSC	36- 64	UL335	HIS	22- 97	USN7474A	SPR	34- 60	WC236D	WESY	72- 63
	SGAI		U8A990728	FSC	62- 9	ULC2Z	♦SCI	104- 3	USN7474J	SPR	34- 61	WC236G	WESY	72- 64
uL900#1	FSC	100- 70	U8A990729	FSC	62- 10	US54H73A	SPR	25- 37	USN7479A	SPR	27- 50	WC237D	WESY	47- 32
SGAI	SSD		U8A990828	FSC	97- 74	US54H73J	SPR	25- 38	USN7479J	SPR	27- 51	WC241G	WESY	64- 76
uL900#2	FSC	100- 71	U8A990829	FSC	97- 75	US54H76J	SPR	25- 39	USO110	♦SPR	33- 26	WC245D	WESY	22- 98
SGAI	SSD		U8A990928	FSC	57- 1	US74H73A	SPR	25- 40	USO111	♦SPR	33- 29	WC246D	WESY	72- 65
uL901#1	FSC	107-109	U8A990929	FSC	57- 2	US74H73J	SPR	25- 41	USO112	♦SPR	62- 66	WC246G	WESY	72- 66
	SGAI		U8A991028	FSC	62- 11	US74H76J	SPR	25- 42	USO113	♦SPR	62- 67	WC247D	WESY	47- 33
uL901#2	FSC	107-110	U8A991029	FSC	62- 12	USO100A	SPR	33- 64	USR0100A	SPR	33- 66	WC255D	WESY	22- 99
	SGAI		U8A991128	FSC	64- 7	USO100B	SPR	33- 65	USR0100B	SPR	33- 67	WC257D	WESY	47- 34
uL902#1	FSC	30- 36	U8A991129	FSC	64- 8	USO101A	SPR	35- 32	USR0101A	SPR	35- 34	WC261D	WESY	72- 67
	SGAI		U8A991228	FSC	98- 50	USO101B	SPR	35- 33	USR0101B	SPR	35- 35	WC261G	WESY	72- 68
uL902#2	FSC	30- 37	U8A991229	FSC	98- 51	USO102A	SPR	32- 92	USR0102A	SPR	62- 68	WC265D	WESY	22-100
	SGAI		U8A991328	FSC	35- 40	USO102B	SPR	62- 63	USR0102B	SPR	62- 69	WC266D	WESY	72- 69
uL903#1	FSC	62- 55	U8A991329	FSC	35- 41	USO103A	SPR	62- 92	USR0103A	SPR	62- 96	WC266G	WESY	72- 70
	SGAI		U8A991428	FSC	62- 13	USO103B	SPR	62- 93	USR0103B	SPR	62- 97	WC286D	WESY	72- 71
uL903#2	FSC	62- 56	U8A991429	FSC	62- 14	USO104A	SPR	62- 64	USR0104A	SPR	62- 70	WC286G	WESY	72- 72
	SGAI		U8A991528	FSC	62- 15	USO104B	SPR	62- 65	USR0104B	SPR	62- 71	WC296D	WESY	72- 73
uL904#1	FSC	98- 40	U8A991529	FSC	64- 9	USO105A	SPR	83- 5	USR0105A	SPR	83- 9	WC296G	WESY	72- 74
	SGAI		U8A992128	FSC	85- 2	USO105B	SPR	83- 6	USR0105B	SPR	83- 10	WC930D	WESY	68- 39
uL904#2	FSC	98- 41	U8A992129	FSC	85- 3	USO106A	SPR	61- 31	USR0106A	SPR	61- 38	WC932D	WESY	68- 40
	SGAI		U8A992329	FSC	22- 69	USO106B	SPR	61- 32	USR0106B	SPR	61- 39	WC933D	WESY	85- 8
uL905#1	FSC	37- 81	U8A992628	FSC	21- 43	USO108A	SPR	91-104	USR0108A	SPR	91-105	WC934D	WESY	100- 83
	SGAI		U8A992629	FSC	21- 44	USO108B	SPR	90- 60	USR0108B	SPR	91-106	WC936D	WESY	100- 84
uL905#2	FSC	37- 82	U8A992728	FSC	100- 81	USO109A	SPR	83- 7	USR0109A	SPR	83- 11	WC937D	WESY	100- 85
	SGAI		U8A992729	FSC	100- 82	USO109B	SPR	83- 8	USR0109B	SPR	83- 12	WC944D	WESY	78- 50
uL906#1	FSC	37- 8	U601	EEC	58- 88	USO110C	SPR	33- 82	USR0110C	SPR	33- 83	WC945D	WESY	35- 55
	SGAI		U603	EEC	109- 63	USO111C	SPR	33- 84	USR0111C	SPR	33- 85	WC946D	WESY	78- 51
uL906#2	FSC	37- 9	U811	EEC	59- 31	USO112C	SPR	62- 83	USR0112C	SPR	62- 85	WC948D	WESY	35- 56
	SGAI		U813	EEC	30- 87	USO113C	SPR	62- 84	USR0113C	SPR	62- 86	WC949D	WESY	77-107
uL907#1	FSC	62- 57	U814	EEC	39- 73	USO114A	SPR	61- 17	USR0114A	SPR	61- 19	WC952D	WESY	22- 6
	SGAI		U815	EEC	93- 51	USO114B	SPR	61- 18	USR0114B	SPR	61- 20	WC953D	WESY	22- 7
uL907#2	FSC	62- 58	U11004	TSC	36-102	USO115A	SPR	62- 94	USR0115A	SPR	62- 98	WC955D	WESY	22- 8
	SGAI		U11008	♦TSC	36-103	USO115B	SPR	62- 95	USR0115B	SPR	62- 99	WC956D	WESY	22- 9
uL914	FSC	62- 59	U41008	TSC	36-104	US720J	SPR	78-102	USS5400A	SPR	67- 26	WC961D	WESY	68- 41
SGAI	SSD		U31909356	FSC	22- 1	US721J	SPR	78-103	USS5400J	SPR	67- 27	WC962D	WESY	78- 52
uL915	FSC	62- 60	U31909456	FSC	22- 2	US727J	SPR	78-104	USS5401A	SPR	67- 28	WC963D	WESY	78- 53
SGAI	SSD		U31909756	FSC	22- 3	US729J	SPR	34- 69	USS5401J	SPR	67- 29	WC7400D	WESY	67- 38
uL923	FSC	22- 72	U31909956	FSC	22- 4	US730J	SPR	78-105	USS5402A	SPR	58- 9	WC7410D	WESY	67- 39
	SGAI		UB601	EEC	58- 89	US731J	SPR	85- 4	USS5402J	SPR	58- 10	WC7420D	WESY	67- 40
uL926#1	FSC	24- 26	UB603	EEC	109- 64	US732J	SPR	85- 5	USS5410A	SPR	67- 30	WC7430D	WESY	67- 41
SGAI	SSD		UC501	EEC	58- 84	USO908D	SPR	97- 76	USS5410J	SPR	67- 31	WC7440D	WESY	67- 42
uL926#2	FSC	24- 27	UC503	EEC	35- 93	USO908E	SPR	97- 77	USS5420A	SPR	67- 32	WC7450D	WESY	60- 27
SGAI	SSD		UC504	EEC	39- 42	USO909D	SPR	62- 16	USS5420J	SPR	67- 33	WC7451D	WESY	60- 28
uL927#1	FSC	100- 72	UC505	EEC	92- 95	USO909E	SPR	62- 17	USS5430A	SPR	67- 34	WC7453D	WESY	60- 29
	SGAI		UC506	EEC	54- 49	USO910D	SPR	62- 18	USS5430J	SPR	67- 35	WC7460D	WESY	86- 7
uL927#2	FSC	100- 73	UC507	EEC	54- 50	USO910E	SPR	62- 19	USS5440A	SPR	67- 36	WC7470D	WESY	29- 50
	SGAI		UC508	EEC	97- 96	USO911D	SPR	64- 10	USS5440J	SPR	67- 37	WC7472D	WESY	28- 72
U5B990028	FSC	100- 74	UC509	EEC	58- 85	USO911E	SPR	64- 11	USS5450A	SPR	60- 19	WC7473D	WESY	24- 16
U5B990328	FSC	61-102	UC641	♦CEQ	43- 4	USO912D	SPR	98- 52	USS5450J	SPR	60- 20	WC7474D	WESY	38- 42
U5B990428	FSC	98- 42	UC701	EEC	59- 27	USO912E	SPR	98- 53	USS5451A	SPR	60- 21	WCT208D	WESY	103-101
U5B990528	FSC	36- 59	UC703	EEC	33- 15	USO913D	SPR	35- 42	USS5451J	SPR	60- 22	WCT215D	WESY	23- 9
U5B990529	FSC	36- 60	UC704	EEC	39-106	USO913E	SPR	35- 43	USS5453A	SPR	60- 23	WCT216D	WESY	72- 33
U5B990728	FSC	61-103	UC705	EEC	93- 47	USO921D	SPR	85- 6	USS5453J	SPR	60- 24	WCT220D	WESY	72- 34
U5B990729	FSC	61-104	UC706	EEC	59- 28	USO921E	SPR	85- 7	USS5454A	SPR	60- 25	WCT226D	WESY	72- 35
U5B990828	FSC	97- 71	UC707	EEC	59- 29	USO940D	SPR	22- 70	USS5454J	SPR	60- 26	WCT227D	WESY	85- 9
U5B990928	FSC	56-107	UC708	EEC	97-110	USO960D	SPR	62- 20	USS5460A	SPR	86- 5	WCT231D	WESY	72- 36
U5B990929	FSC	56-108	UC709	EEC	54-103	US5421A	SPR	48- 50	USS5460J	SPR	86- 6	WCT236D	WESY	72- 37
U5B991028	FSC	61-105		UCC		US5421J	SPR	48- 51	USS5470A	SPR	24- 40	WCT245D	WESY	22-101

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK

Obs-In this book

Δ-Registered with JEDEC by this manufacturer

3. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
WCT246D	WESY	72-38	WS840Q	WESY	93-14									
WCT255D	WESY	22-102	WS841Q	WESY	91-99									
WCT261D	WESY	72-39	XC11	♦VDM	40-91									
WCT265D	WESY	22-103	XC21	♦VDM	40-92									
WCZ216D	WESY	72-100	XC31	♦VDM	40-93									
WCZ236D	WESY	72-101	XC601	♦CEQ	40-104									
WCZ246D	WESY	72-102	XC701	♦CEQ	40-105									
WCZ261D	WESY	72-103	XC801	CEQ	40-106									
WCZ266D	WESY	72-104	XC901	♦CEQ	40-107									
WCZ298Z	WESY	92-45	XCG200	RTN	41-5									
WM150Q	WESY	99-3	XD30	HIS	112-18									
WM151Q	WESY	108-1	XD35	HIS	112-20									
WM201G	WESY	65-10	XD335	♦HIS	109-92									
WM201Q	WESY	65-11	XD336	♦HIS	112-21									
WM201T	WESY	65-12	Y16701	TSC	99-25									
WM202T,G,Q	WESY	31-80	Z16701	TSC	99-26									
WM204G	WESY	65-13	ZD410E1	♦ZEL	106-101									
WM204Q	WESY	65-14	ZD450E1	♦ZEL	106-102									
WM204T	WESY	65-15	ZLC1	♦SCI	103-16									
WM205T,Q	WESY	37-41	ZLC2Z	♦SCI	103-17									
WM206G	WESY	65-16	ZN400E	♦FERB	111-17									
WM208G	♦WESC	103-102	ZN400T	♦FERB	111-18									
	WESY		ZSD71	FERB	87-75									
WM208Q	♦WESC	103-103	ZSD71A	GECB	87-76									
	WESY		ZSD91	FERB	87-77									
WM208T	♦WESC	103-104	ZSD91A	GECB	87-78									
	WESY		ZSD92B	GECB	23-72									
WM210G	WESY	64-77	ZSD141A	GECB	87-79									
WM210Q	WESY	64-78	ZSD142B	GECB	23-73									
WM210T	WESY	64-79	ZSD151A	GECB	87-80									
WM211G	WESY	65-17	ZSD152B	GECB	23-74									
WM211Q	WESY	64-80	ZSD211A	GECB	87-81									
WM211T	WESY	65-18	ZSD231A	GECB	87-82									
WM212Q	WESY	31-81	ZSF71	FERB	24-24									
WM212T,G	WESY	31-82	ZSF71B	GECB	23-75									
WM213G	WESY	34-53	ZSF72B	GECB	23-76									
WM213Q	WESY	34-54	ZSF91	FERB	24-25									
WM213T	WESY	34-55	ZSF91B	GECB	23-77									
WM214G	WESY	65-19	ZSF141B	GECB	23-78									
WM214Q	WESY	65-20	ZSF151B	GECB	23-79									
WM214T	WESY	65-21	ZSS72D	♦FERB	63-52									
WM215G	WESY	22-104	ZSS73A	FERB	63-53									
WM215Q	WESY	22-105	ZSS73B	♦FERB	63-54									
WM215T	WESY	22-106	ZSS74A	♦FERB	63-55									
WM216G	WESY	65-22	ZSS74C	FERB	63-56									
WM217G	WESY	85-10	ZSS92D	FERB	63-57									
WM217Q	WESY	85-11	ZSS93A	FERB	63-58									
WM217T	WESY	85-12	ZSS93B	FERB	63-59									
WM218G	WESY	92-5	ZSS94A	FERB	63-60									
WM218Q	WESY	92-6	ZSS94C	FERB	63-61									
WM218T	WESY	92-7	ZSS142D	GECB	63-62									
WM221G	WESY	65-23	ZSS143A	GECB	63-63									
WM221Q	WESY	64-81	ZSS143B	GECB	63-64									
WM221T	WESY	65-24	ZSS144A	GECB	63-65									
WM222G	WESY	30-20	ZSS144C	GECB	63-66									
WM224G	WESY	65-25	ZSS152D	GECB	63-67									
WM224Q	WESY	64-82	ZSS153A	GECB	63-68									
WM224T	WESY	65-26	ZSS153B	GECB	63-69									
WM225G	WESY	24-7	ZSS154A	GECB	63-70									
WM226G	WESY	65-28	ZSS154C	GECB	63-71									
WM227G	WESY	85-13	ZST111E	GECB	62-61									
WM231G	WESY	65-27	ZST131E	GECB	62-62									
WM231Q	WESY	64-83	ZXD201A	GECB	87-83									
WM231T	WESY	64-84	ZXD202B	GECB	23-80									
WM234G	WESY	65-29	ZXD211A	GECB	87-59									
WM236G	WESY	65-30	ZXD211B	GECB	23-81									
WM237Q	WESY	47-35	ZXD221A	GECB	87-84									
WM241G	WESY	65-31	ZXD222B	GECB	23-82									
WM241Q	WESY	64-85	ZXD231A	GECB	87-60									
WM241T	WESY	64-86	ZXD231B	GECB	23-83									
WM245K	WESY	22-107	ZXF201B	GECB	23-84									
WM245Q	WESY	22-108	ZXF211B	GECB	23-85									
WM246G	WESY	65-32	ZXF221B	GECB	23-86									
WM247Q	WESY	47-36	ZXF231B	GECB	23-87									
WM255K	WESY	22-109	ZXS202D	GECB	63-72									
WM255Q	WESY	22-110	ZXS203A	GECB	63-73									
WM257Q	WESY	47-37	ZXS203B	GECB	63-74									
WM261G	WESY	65-33	ZXS204A	GECB	63-75									
WM261Q	WESY	64-87	ZXS204C	GECB	63-76									
WM261T	WESY	64-88	ZXS212D	GECB	63-77									
WM265K	WESY	23-1	ZXS213A	GECB	63-78									
WM265Q	WESY	23-2	ZXS213B	GECB	63-79									
WM266G	WESY	65-34	ZXS214A	GECB	63-80									
WM286G	WESY	65-35	ZXS214C	GECB	63-81									
WM296G	WESY	64-89	ZXS222D	GECB	63-82									
WM501G	WESY	64-33	ZXS223A	GECB	63-83									
WM503G	WESY	24-23	ZXS223B	GECB	63-84									
WM506G	WESY	64-90	ZXS224A	GECB	63-85									
WM510	WESY	64-91	ZXS224C	GECB	63-86									
WM510G	WESY	64-92	ZXS232D	GECB	63-87									
WM556G	WESY	64-93	ZXS233A	GECB	63-88									
WM10333	WAL	43-107	ZXS233B	GECB	63-89									
WM10343	WAL	37-98	ZXS234A	GECB	63-90									
WM10383	WAL	53-48	ZXS234C	GECB	63-91									
WM10383D	WAL	53-49												
WM10413	WAL	102-53												
WM10413D	WAL	102-54												
WM10423	WAL	56-52												
WM10423D	WAL	56-53												
WM10433	WAL	93-35												
WM10443	WAL	31-102												
WM14433	WAL	105-29												
WS150Q	WESY	99-4												
WS151Q	WESY	108-2												
WS153Q	WESY	108-3												
WS371Q	WESY	56-8												
WS374Q	WESY	56-9												
WS810Q	WESY	48-20												
WS811Q	WESY	64-94												
WS812Q	WESY	48-21												
WS813Q	WESY	53-64												
WS814Q	WESY	48-22												
WS815Q	WESY	95-30												
WS817Q	WESY	64-95												

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK

Obs-In this book

△-Registered with JEDEC by this manufacturer

4. BINARY OR FLIP - FLOP

IN ORDER OF (1) FLIP-FLOP (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF FLIP-FLOP	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	FFD04		25k	3DM	0.0	6.0	RTL	1	4	12	12	200n	2.0u	500n	125m	1.0	0	65	1		●
2	CM8623		50k	3DM	10	0.0				10	30								1		M37 ●
3	G321		100k	PCB	-6.0	0.0	RCT		3	12	6.0	800n	600n	1.4u	1.3	1.0 *	-55	71	4		CB16 ●
4	GA321		100k	PCB	-6.0	0.0	RCT		3	12	6.0	800n	600n	1.4u	1.3	1.0 *	-55	71	4		CB16
5	CM7653		400k	3DM	-6.5	0.0				18	6.0								1		M37
6	PM6993		800k	3DM	-6.5	0.0				18	6.0								1		ZB37
7	PM7943		800k	3DM	-6.5	0.0				18	6.0								1		ZB37
8	G225		1.0M	PCB	-6.0	0.0		10	10	12	6	250n	100n	300n	900m	2.0	-55	71	4		CB16
9	GA225		1.0M	PCB	-6.0	0.0		10	10	12	6.0	250n	100n	300n	900m	2.0	-55	71	4		CB16
10	PM6983		2.0M	3DM	-6.5	0.0				18	6								1		ZB37
11	SN1592		10M		2.5	.40	DTL	10	7	0.0	5.5	30n			20m	750m	0	70	1		TO84
12	SN1592P		10M		2.5	.40	DTL	10	7	0.0	5.5	30n			20m	750m	0	70	1		M63
13	NB1005		20M		.82	.57	RTL	3	5†	2.7	3.3	20n	40n	40n	64n	540m	-55	125	1	B03101	CN29
14	NB2005		20M		.82	.57	RTL	3	5†	2.7	3.3	20n	40n	40n	64m	540m	0	100	1	B03101	CN29
15	NB3005		20M		.82	.57	RTL	3	5†	2.7	3.3	20n	40n	40n	64m	540m	15	55	1	B03101	CN29
16	NB1002		30M		.82	.57	RTL	2	4†	2.7	3.3	13n	20n	30n	28m	540m	-55	125	1	B0352	CN29
17	NB2002		30M		.82	.57	RTL	2	4†	2.7	3.3	13n	20n	30n	28m	540m	0	100	1	B0325	CN29
18	NB3002		30M		.82	.57	RTL	2	4†	2.7	3.3	13n	20n	30n	28m	540m	15	55	1	B0352	CN29
19	MIC300-1A	2					CTL	6	10	0.0	4.0	45n			27m	200m	-55	125	1		TO89
20	MIC300-1B	2					CTL	6	10	0.0	4.0	45n			27m	200m	-55	125	1		TO86
21	MIC300-1C	2					CTL	6	10	0.0	4.0	45n			27m	200m	-55	125	1		CN17
22	MIC300-2A	2					CTL	6	10	0.0	4.0	45n			27m	200m	0	100	1		TO89
23	MIC300-2B	2					CTL	6	10	0.0	4.0	45n			27m	200m	0	100	1		TO86
24	MIC300-2C	2					CTL	6	10	0.0	4.0	45n			27m	200m	0	100	1		CN17
25	MIC300-3A	2					CTL	6	10	0.0	4.0	45n			27m	200m	15	55	1		TO89
26	MIC300-3B	2					CTL	6	10	0.0	4.0	45n			27m	200m	15	55	1		TO86
27	MIC300-3C	2					CTL	6	10	0.0	4.0	45n			27m	200m	15	55	1		CN17
28	SD3722	2					RTL	5		0.0	3.6	60nΔ			135m		0	75	1	B0270	CN⍁
29	SD3742	2					RTL	5		0.0	3.6	150nΔ			29m		0	75	1	B0227a	M⍁
30	SD3744	2					RTL	5		0.0	3.6	100nΔ			41m		0	75	2	B02119a	M⍁
31	SN7304N	2			2.6	.30	DTL	5	10	0.0	4.0	60n	45n	40n	80m		0	70	2	B024b	M⍁
32	LU320	2			2.7%	.80*		5	12	0.0	4.5	65n%			90m		10	55	1		CN17
33	1264JK	2		MON			DTL		10		8.0	20n					-55	125	1	B0223	CN41
34	2264JK	2		MON			DTL		10		8.0	20n					-55	125	1	B0223	FP19a
35	FuL92328	2		MON			RTL	3	8	0.0	3.6	40n			54m	300m	15	55	1	B0221	
36	FuL92329	2		MON			RTL	3	10	0.0	3.6	40n			54m	300m	15	55	1	B0221	
37#	SFC763E	2		MON			DTL	3	9	0	15	120n			500m	5.0	0	70	2	B038u	TO116
38	U5B992328	2		MON			RTL	4	20	0.0	3.6	15n					15	55	1	B0221	TO99
39	U5B992628	2		MON			RTL	5	32	0.0	3.6	15n				250m	15	55	1	B0262	TO99
40	U5B992629	2		MON			RTL	5	32	0.0	3.6	15n				250m	15	55	1	B0262	TO99
41	U5F992628	2		MON			RTL	5	32	0.0	3.6	15n				250m	15	55	1	B0262	TO100
42	U5F992629	2		MON			RTL	5	32	0.0	3.6	15n				250m	15	55	1	B0262	TO100
43	U8A992628	2		MON			RTL	5	32	0.0	3.6	15n				250m	15	55	1	B0262	CN34
44	U8A992629	2		MON			RTL	5	32	0.0	3.6	15n				250m	15	55	1	B0262	CN34
45	ECL2540	2		MON	.15%	-.15*	ECL	3	35	3.2	1.32	2.5n	6.7	6.7		225mΔ	0	70	2	B03147	M117m
46	PL940	2		MON	.90	.15	RTL	4	2	0.0	3.0	100nΔ			250m		-55	125		B0230	CN13
47	PL916#1	2		MON	1.0	.15	RTL	4	7	0.0	3.0				54m		-55	125	1	B0244	CN13
48	PL916#2	2		MON	1.0	.15	RTL	4	7	0.0	3.0				54m		-55	125	1	B0244	FP2
49	PL9916	2		MON	1.0	.15	RTL	4	7	0.0	3.0				54m		-55	125	1	B0244	
50	PL988	2		MON	1.1	.20	RTL	5	3	0.0	3.0				2.2m		-55	125	1	B0229	FP1
51#	3IH9000-1	2		MON	1.7%	.90*Δ	TTL	10	10	0.0	5.0	30nΔ				1.0			1	B02135	FP32
52#	3IH9000-9	2		MON	1.7%	.90*Δ	TTL	10	10	0.0	5.0	30nΔ				1.0	0	75	1	B02135	FP32
53#	3IH9001-1	2		MON	1.7%	.90*Δ	TTL	10	10	0.0	5.0	30nΔ				1.0			1	B02136	FP32
54#	3IH9001-9	2		MON	1.7%	.90*Δ	TTL	10	10	0.0	5.0	30nΔ				1.0	0	75	1	B02136	FP32
55#	6AH9000-1	2		MON	1.7%	.90*Δ	TTL	10	10	0.0	5.0	30nΔ				1.0			1	B02135	TO116
56#	6AH9000-9	2		MON	1.7%	.90*Δ	TTL	10	10	0.0	5.0	30nΔ				1.0	0	75	1	B02135	TO116
57#	6AH9001-1	2		MON	1.7%	.90*Δ	TTL	10	10	0.0	5.0	30nΔ				1.0			1	B02136	TO116
58#	6AH9001-9	2		MON	1.7%	.90*Δ	TTL	10	10	0.0	5.0	30nΔ				1.0	0	75	1	B02136	TO116
59#	6AH9020-1	2		MON	1.7%	.90*Δ	TTL	5	10	0.0	5.0	30nΔ				1.0			2		TO116
60#	6AH9020-9	2		MON	1.7%	.90*Δ	TTL	5	10	0.0	5.0	30nΔ				1.0		75	2		TO116
61#	6AH9022-1	2		MON	1.7%	.90*Δ	TTL	5	10	0.0	5.0	30nΔ				1.0			2		TO116
62#	6AH9022-9	2		MON	1.7%	.90*Δ	TTL	5	10	0.0	5.0	30nΔ				1.0	0	75	2		TO116
63#	T100D2-16	2		MON	1.7%	.90*	TTL	10	10	0.0	5.0	30nΔ				400m	-55	125	1	B02167	M200
64#	T101D2-16	2		MON	1.7%	.90*	TTL	10	10	0.0	5.0	30nΔ				400m	-55	125	1	B02168	M200
65#	T120D2-14	2		MON	1.7%	.90*	TTL	5	10	0.0	5.0	32nΔ			300m%	400m	-55	125	2	B02224	M105e
66#	T121D2-14	2		MON	1.7%	.90*	TTL	5	10	0.0	5.0	32nΔ			300m%	400m	-55	125	2	B02225	M105e
67#	T100B1-16	2		MON	1.8%	.85*	TTL	10	10	0.0	5.0	30nΔ			140m%	400m	0	75	1	B02167	M200
68#	T100D1-16	2		MON	1.8%	.85*	TTL	10	10	0.0	5.0	30nΔ			140m%	400m	0	75	1	B02167	M200
69#	T101B1-16	2		MON	1.8%	.85*	TTL	10	10	0.0	5.0	30nΔ			165m%	400m	0	75	1	B02168	M200
70#	T101D1-16	2		MON	1.8%	.85*	TTL	10	10	0.0	5.0	30nΔ			165m%	400m	0	75	1	B02168	M200
71#	T120B1-14	2		MON	1.8%	.85*	TTL	10	10	0.0	5.0	32nΔ			300m%	400m	0	75	2	B02224	M105e
72#	T120D1-14	2		MON	1.8%	.85*	TTL	10	10	0.0	5.0	32nΔ			300m%	400m	0	75	2	B02224	M105e
73#	T121B1-14	2		MON	1.8%	.85*	TTL	10	10	0.0	5.0	32nΔ			300m%	400m	0	75	2	B02225	M105e
74#	T121D1-14	2		MON	1.8%	.85*	TTL	10	10	0.0	5.0	32nΔ			300m%	400m	0	75	2	B02225	M105e
75	RC993D	2		MON	2.0%	1.0*	DTL	4	12	0	5.0	40n			280m†	500m	0	75	2		M105m
76	RC993J	2		MON	2.0%	1.0*	DTL	4	12	0	5.0	40n			280m†	500m	0	75	2		FP28
77	RC993P	2		MON	2.0%	1.0*	DTL	4	12	0	5.0	40n			280m†	500m	0	75	2		M105k
78	RC994D	2		MON	2.0%	1.0*	DTL	4	12	0	5.0	35n			324m†	500m	0	75	2		M105m
79	RC994J	2		MON	2.0%	1.0*	DTL	4	12	0	5.0	35n			324m†	500m	0	75	2		FP28
80	RC994P	2		MON	2.0%	1.0*	DTL	4	12	0	5.0	35n			324m†	500m	0	75	2		M105k
81	RC997D	2		MON	2.0%	1.0*	DTL	4	12	0	5.0	35n			324m†	500m	0	75	2		M105m
82	RC997J	2		MON	2.0%	1.0*	DTL	4	12	0	5.0	35n			324m†	500m	0	75	2		FP28
83	RC997P	2		MON	2.0%	1.0*	DTL	4	12	0	5.0	35n			324m†	500m	0	75	2		M105k
84	RC999D	2		MON	2.0%	1.0*	DTL	4	12	0	5.0	40n			280m†	500m	0	75	2		M105m
85	RC999J	2		MON	2.0%	1.0*	DTL	4	12	0	5.0	40n			280m†	500m	0	75	2		FP28
86	RC999P	2		MON	2.0%	1.0*	DTL	4	12	0	5.0	40n			280m†	500m	0	75	2		M105k
87	RM993P	2		MON	2.0%	1.0*	DTL	4	12	0	5.0	40n			280m†	500m	-55	125	2		M105k
88	RM994P	2		MON	2.0%	1.0*	DTL	4	12	0	5.0	35n			324m†	500m	-55	125	2		M105k
89	RM997P	2		MON	2.0%	1.0*	DTL	4	12	0	5.0	35n			324m†	500m	-55	125	2		M105k
90	RM999P	2		MON	2.0%	1.0*	DTL	4	12	0	5.0	40n			280m†	500m	-55	125	2		M105k
91#	3IH9020-1	2		MON	2.4%	.40*Δ	TTL	5	10	0.0	5.0					1.0			2		FP32
92#	3IH9022-1	2		MON	2.4%	.40*Δ	TTL	5	10	0.0	5.0					1.0			2		FP32
93#	9020-1	2		MON	2.4%	.4*Δ	TTL	5	10	0	5					1.0	-55	125	2		
94#	9022-1	2		MON	2.4%	.4*Δ	TTL	5	10	0	5					1.0	-55	125	2		
95#	3IH9020-9	2		MON	2.4%	.45*Δ	TTL	5	10	0.0	5.0					1.0	0	75	2		FP32
96#	3IH9022-9	2		MON	2.4%	.45*Δ	TTL	5	10	0.0	5.0					1.0	0	75	2		FP32
97#	9020-9	2		MON	2.4%	.45*Δ	TTL	5	10	0	5					1.0	0	75	2		
98#	9022-9	2		MON	2.4%	.45*Δ	TTL	5	10	0	5					1.0	0	75	2		
99	MC417F	2		MON	2.4%	.45*†	TTL	10	12	0.0	5.0	20n			95m		0	75	1	B02166	TO85
100	MC417L	2		MON	2.4%	.45*†	TTL	10	12	0.0	5.0	20n			95m		0	75	1	B02166	TO116
101	MC417P	2		MON	2.4%	.45*†	TTL	10	12	0.0	5.0	20n			95m		0	75	1	B02166	M114
102	MC467F	2		MON	2.4%	.45*†	TTL	10	6	0.0	5.0	20n			95m		0	75	1	B02166	TO85
103	MC467L	2		MON	2.4%	.45*†	TTL	10	6	0.0	5.0	20n			95m		0	75	1	B02166	TO116
104	MC467P	2		MON	2.4%	.45*†	TTL	10	6	0.0	5.0	20n			95m		0	75	1	B02166	M114
105	MC517F	2		MON	2.4%	.45*†	TTL	10	15	0.0	5.0	20n			95m		-55	125	1	B02166	TO85
106	MC517L	2		MON	2.4%	.45*†	TTL	10	15	0.0	5.0	20n			95m		-55	125	1	B02166	TO116
107	MC567F	2		MON	2.4%	.45*†	TTL	10	7	0.0	5.0	20n			95m		-55	125	1	B02166	TO85
108	MC567L	2		MON	2.4%	.45*†	TTL	10	7	0.0	5.0	20n			95m		-55	125	1	B02166	TO116
109	U6A909756	2		MON	2.6%	.40†*	DTL	8	11	0.0	8.0				100m		-20	100	2	B02101	TO116
110	U6A909956	2		MON	2.6%	.40†*	DTL	8	12	0.0	8.0				100m		-20	100	2	B02101	TO116

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

4. BINARY OR FLIP - FLOP

IN ORDER OF (1) FLIP-FLOP (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF FLIP-FLOP	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	U31909356	2		MON	2.6%	.40†*	DTL	4	12	0.0	8.0				100m		-20	100	2	B02137	FP28
2	U31909456	2		MON	2.6%	.40†*	DTL	4	11	0.0	8.0				100m		-20	100	2	B02137	FP28
3	U31909756	2		MON	2.6%	.40†*	DTL	8	11	0.0	8.0				100m		-20	100	2	B02101	FP28
4	U31909956	2		MON	2.6%	.40†*	DTL	8	12	0.0	8.0				100m		-20	100	2	B02101	FP28
5	HEPC1053P-RT	2		MON	2.60%	.45*†	DTL	4		0.0	5.0	40n			120m†		0	75	2	B02263	TO116
6	WC952D	2		MON	2.6%	.45	DTL	4	24	0	8	40n			120m†		0	75	2	B02101	M126b
7	WC953D	2		MON	2.6%	.45	DTL	4	24	0	8	40n			120m†		0	75	2	B02101a	M126b
8	WC955D	2		MON	2.6%	.45	DTL	4	22	0	8	40n			140m†		0	75	2	B02101b	M126b
9	WC956D	2		MON	2.6%	.45	DTL	4	22	0	8	40n			140m†		0	75	2	B02101c	M126b
10	529BN	2		MON	2.7%	.20†*	TTL	7	10†	0.0	5.0	1.0uΔ			480u		-55	125	1	B02223	M105aa
11	6040BN	2		MON	2.7%	.20†*	TTL	7		0.0	5.0	63n%			5.5m	700m	-55	125	1	B02228	M105ab
12	PD9093-51	2		MON	3.1%	.40*†	DTL	4	20	0.0	8.0	75nΔ			350m	1.0	-55	125	2	B02102	TO116
13	PD9099-51	2		MON	3.1%	.40*†	DTL	5		0.0	8.0	75nΔ			370m	1.0	-55	125	2	B02191	TO116
14	PL9093-51	2		MON	3.1%	.40*†	DTL	4	20	0.0	8.0	75nΔ			350m	1.0	-55	125	2	B02102	TO86
15	PL9099-51	2		MON	3.1%	.40*†	DTL	5		0.0	8.0	75nΔ			370m	1.0	-55	125	2	B02191	TO86
16	PD9093-59	2		MON	3.1%	.45*†	DTL	4	20	0.0	8.0	80nΔ			370m	1.0	0	75	2	B02102	TO116
17	PD9099-59	2		MON	3.1%	.45*	DTL	5		0.0	8.0	80nΔ			380m	1.0	0	75	2	B02191	TO116
18	PE9093-59	2		MON	3.1	.45	DTL	4	20	0.0	5.0	75n			100m	1.0	0	75	2	B02102	M131
19	PL9093-59	2		MON	3.1%	.45*†	DTL	4	20	0.0	8.0	80nΔ			370m	1.0	0	75	2	B02102	TO86
20	PL9099-59	2		MON	3.1†%	.45*†	DTL	5		0.0	8.0	80nΔ			380m	1.0	0	75	2	B02191	TO86
21	PM9093-59	2		MON	3.1%	.45*†	DTL	4	20	0.0	8.0	80nΔ			370m	1.0	0	75	2	B02102	TO116
22	PM9099-59	2		MON	3.1†%	.45*†	DTL	5		0.0	8.0	80nΔ			380m	1.0	0	75	2	B02191	TO116
23	MC515L	2		MON	3.3	.26	TTL	10	15	0	8				40m†	900m	-55	125	1	B02105	TO116
24	PD9094-51	2		MON	4.0%	.40*†	DTL	4	18	0.0	8.0	65nΔ			390m	1.0	-55	125	2	B02102	TO116
25	PD9097-51	2		MON	4.0%	.40*†	DTL	5		0.0	8.0	65nΔ			390m	1.0	-55	125	2	B02191	TO116
26	PL9094-51	2		MON	4.0%	.40*†	DTL	4	18	0.0	8.0	65nΔ			390m	1.0	-55	125	2	B02102	TO86
27	PL9097-51	2		MON	4.0%	.40*†	DTL	5		0.0	8.0	65nΔ			390m	1.0	-55	125	2	B02191	TO86
28	PE9094-59	2		MON	4.0	.45	DTL	4	18	0.0	5.0	65n			100m	1.0	0	75	2	B02102	M131
29	PD9094-59	2		MON	4.3%	.45*†	DTL	4	18	0.0	8.0	70nΔ			420m	1.0	0	75	2	B02102	TO116
30	PD9097-59	2		MON	4.3%	.45*†	DTL	5		0.0	8.0	70nΔ			310m	1.0	0	75	2	B02191	TO116
31	PL9094-59	2		MON	4.3%	.45*†	DTL	4	18	0.0	8.0	70nΔ			420m	1.0	0	75	2	B02102	TO86
32	PL9097-59	2		MON	4.3%	.45*†	DTL	5		0.0	8.0	70nΔ			310m	1.0	0	75	2	B02191	TO86
33	PM9094-59	2		MON	4.3%	.45*†	DTL	4	18	0.0	8.0	70nΔ			420m	1.0	0	75	2	B02102	TO116
34	PM9097-59	2		MON	4.3%	.45*†	DTL	5		0.0	8.0	70nΔ			310m	1.0	0	75	2	B02191	TO116
35	SD312BG	2		MON	6.5%	5.0*	DTL	5		0.0	12	80n%					-55	125	2	B02207	CN50
36	SD312BJ	2		MON	6.5%	5.0*	DTL	5		0.0	12	80n%					-55	125	2	B02207	M172
37	SD312CG	2		MON	6.5%	5.0*	DTL	5		0.0	12	80n%					-30	100	2	B02207	CN50
38	SD312CJ	2		MON	6.5%	5.0*	DTL	5		0.0	12	80n%					-30	100	2	B02207	M172
39	312BG	2		MON	11.3	1.2†	DTL	5	5	0.0	12	80nΔ			280m	3.5	-55	125	2	B038q	CN69
40	312BN	2		MON	11.3	1.2†	DTL	5	5	0.0	12	80nΔ			280m	3.5	-55	125	2	B038q	M204
41	312CG	2		MON	11.3	1.2†	DTL	5	5	0.0	12	80nΔ			280m	3.5	-35	80	2	B038q	CN69
42	312CN	2		MON	11.3	1.2†	DTL	5	5	0.0	12	80nΔ			280m	3.5	-35	80	2	B038q	M204
43	B680	2	1.0k	PCB	-6.0	0.0	DTL	4	4	12	6				150m	2.0	-15	60	1	B0246	CB22
44	T655A	2	12k		-3.0	-11	DTL		12	0.0	0.0	1.0u	400n	1.0u	60m		-45	65			
45	G301	2	100k	PCB	-6.0	0.0	RCT		3	12	6.0	800n	600n	1.4u	665m	1.0 *	-55	71	2	B02164	CB16
46	G311	2	100k	PCB	-6.0	0.0	RCT		3	12	6.0	800n	600n	1.4u	1.3	1.0 *	-55	71	2	B02165	CB16
47	GA301	2	100k	PCB	-6.0	0.0	RCT		3	12	6.0	800n	600n	1.4u	665m	1.0 *	-55	71	2		CB16
48	GA311	2	100k	PCB	-6.0	0.0	RCT		3	12	6.0	800n	600n	1.4u	1.3	1.0 *	-55	71	2		CB16
49	FF4	2	100k	3DM	2.8	.20	DTL	4	18	0.0	3.0	5.0n	250n	250n	150u	400m	-20	85	1		M14
50	FF11-4	2	100k	3DM	-10	0.0	DTL	4	3	12	12	100n	150n	300n	130m	2.0	-35	65	1	B0238a	M15
51	4XGM	2	200k	PCB	-10	0.0	RCT			12	12				700m		0	50	4	B0211	CB19
52	GFF1-.2	2	200k	PCB	-10	0.0	RCT	6	9	12	6.0	200n	1.0u	500n	804m	2.0	0	55	4	B0240	CB15
53	IFF1-.2	2	200k	TFH	-10	0.0		7	10	30	6.0	600n	1.0u	500n	1.9	1.5	0	55	4	B0271	
54	PL4M01	2	500kΔ	MOS	-9.0%	-3.0*	TTL	8		24	0.0	400n	100n	300n	125m	1.0	-55	85	1	D0253	FP34
55#	H110	2	1.0M†%	MON				4	25						480m		0	75	2		M157
56#	H111	2	1.0M†%	MON				5	25						480m		0	75	2		M105e
57	PL9923	2	1.0M	MON			RC	3	10	0.0	3.6	40n			54m	300m	15	55	1	B0258	TO78
58	509BH	2	1M%Δ	MON	1.8%	1.0*	DTL	7	9	0	6.8	550n			6.0m		-55	125	1	B02122	TO86
59	509CJ	2	1.0MΔ%	MON	1.8%	1.0*	TTL	7	9	0.0	6.8	550n			6.0m		0	70	1	B02122	M205
60	539CJ	2	1.0MΔ%	MON	1.8%	1.0*	TTL	7	9	0.0	6.8	550n			6.0m		0	70	1	B02122	M205
61	579CJ	2	1.0MΔ%	MON	1.8%	1.0*	TTL	7	9	0.0	6.8	550n			6.0m		0	70	1	B02122	M205
62	SC1169	2	1.0M	MOS	-10	3.0				20	0.0						0	70	2	B0222	FP18
63#	GDJ106	2	1.0M	MOS	-10%	-2.0*		7		-27	-13	300n%	50u	50u			-55	85	2		FP48
64	MEM1015	2	1.0M	MOS	-10%	-2*	TTL	7		30	.3	300n			164m	1.0 *	-55	85	2		FP48
65	G201	2	1.0M	PCB	-6.0	0.0	RCT	10	10	12	6	250n	100n	300n	560m	2.0	-55	71	2	B04139a	CB16
66	GA201	2	1.0M	PCB	-6.0	0.0	RCT	10	10	12	6.0	250n	100n	300n	560m	2.0	-55	71	2		CB16
67	4XGH	2	1.0M	PCB	-10	0.0	RCT			12	12				1.0		0	50	4	B0211	CB19
68	GFF1-1	2	1.0M	PCB	-10	0.0	RCT	6	9	12	6.0	100n	250n	200n	960m	2.0	0	55	4	B0240	CB15
69	U8A992329	2	2.0M	MON			RTL	4	20	0.0	3.6	15n					0	70	1	B0221	CN34
70	US0940D	2	2.0M†	MON			RTL	3	8	0	8	210n⍁			250m		-55	125	1	B0260	TO78
71	USN0940D	2	2.0M†	MON			RTL	3	8	0	8	210n⍁			250m		0	70	1	B0260	TO78
72	uL923	2	2.0M	MON	1.1	.25	RTL	4	20	0.0	3.6						15	55	1	B0221	CN34
73	R12002	2	2.0M	MON	1.7	.30	DTL	5	3	0.0	4.0	150n			10m	800m	-55	125	1	B026	CN3
74	WC215D	2	2.0M%	MON	2.1	1.1	DTL	2	7†	0	6	55n			115m	700m	0	75	1	B0266	TO116
75	WC215G	2	2.0M%	MON	2.1	1.1	DTL	2	7†	0	6	55n			115m	700m	0	75	1	B0266	TO84
76	WC215T	2	2.0M%	MON	2.1	1.1	DTL	2	7†	0	6	55n			115m	700m	0	75	1	B0266	CN18
77	SD311BG	2	2.0M†	MON	6.5%	5.0*	DTL	5		0.0	12	90n%					-55	125	1	B02148	CN50
78	SD311BJ	2	2.0M†	MON	6.5%	5.0*	DTL	5		0.0	12	90n%					-55	125	1	B02148	M172
79	SD311CG	2	2.0M†	MON	6.5%	5.0*	DTL	5		0.0	12	90n%					-30	100	1	B02148	CN50
80	SD311CJ	2	2.0M†	MON	6.5%	5.0*	DTL	5		0.0	12	90n%					-30	100	1	B02148	M172
81	311BG	2	2.0M†Ø	MON	11.3	1.2†	DTL	10	5	0.0	12	270nΔ			180m	3.5	-55	125	1	B02148	CN69
82	311BN	2	2.0M†Ø	MON	11.3	1.2†	DTL	10	5	0.0	12	270nΔ			180m	3.5	-55	125	1	B02148	M204
83	311CG	2	2.0M†Ø	MON	11.3	1.2†	DTL	10	5	0.0	12	255nΔ			180m	3.5	-35	80	1	B02148	CN69
84	311CN	2	2.0M†Ø	MON	11.3	1.2†	DTL	10	5	0.0	12	255nΔ			180m	3.5	-35	80	1	B02148	M204
85	FF21-4	2	2.0M	3DM	10	0.0	DTL	4	3	12	12	20n	50n	30n	75m	2.0	-35	125	1	B0268b	M16
86	CD2203D	2	3MΔ%	MON	3.4	.10	DTL	12	5	0	4				7.0m†	1.2 Δ	-55	125	1	B0296	M135
87	R12001	2	4.0M	MON	1.7	.30	DTL	5	4	0.0	4.0	150n			5.0m	800m	-55	125	1	B025	CN12
88	R42001	2	4.0M	MON	1.7	.30	DTL	5	4	0.0	4.0	150n			5.0m	800m	-55	125	1	B025	FP26c
89	539BH	2	4M%Δ	MON	1.8%	1.0*	DTL	7	8	0	6.8	140n			18m		-55	125	1	B02122	TO86
90	LU320K	2	4.0M†	MON	3.3%	.6†*	DTL	5	17	0	5.5	65n			90m	1.2	15	55	1	B0216	CN17
91	SU320G	2	4.0M†	MON	3.3%	.6†*	DTL	5	12	0	5.5	65n			90m	1.2 Δ	-20	85	1	B0216	TO91
92	SU320K	2	4.0M†	MON	3.3%	.6†*	DTL	5	12	0	5.5	65n			90m	1.2 Δ	-20	85	1	B0216	CN17
93	SN7301N	2	4.0M†	MON	4.0*	.40*	TTL	7	20	0.0	4.0	60n	45n	40n	40m		0	70	1	B024a	M⍁
94	SN7302N	2	4.0M†	MON	4.0*	.40*	TTL	4	10	0.0	4.0	60n	45n	40n	80m		0	70	2	B024	M⍁
95	IF6H	2	5.0M	MOH	0.0	5.0		5	12	0.0	5.0	225nΔ			650m	1.1 Δ	0	100	6	B038p	CB7
96	IF6M	2	5.0M	MOH	0.0	5.0		5	12	0.0	5.0	225nΔ			650m	1.1 Δ	0	70	6	B038p	CB7
97	UL335	2	5.0M	MOH	6.3	0.0	DTL	7†	8	0.0	6.0	80nΔ			360m		0	55	7		CB13
98	WC245D	2	5.0M%	MON			DTL	2†	6†	0	6	90n			180m	600m	0	75	2		TO116
99	WC255D	2	5.0M%	MON			DTL	1	6†	0	6	90n			180m	600m	0	75	2		TO116
100	WC265D	2	5.0M%	MON			DTL	1	6†	0	6	90n			180m	600m	0	75	2		TO116
101	WCT245D	2	5.0M%	MON			DTL		4	0	12	100n			360m†		0	75	2		TO116
102	WCT255D	2	5.0M%	MON			DTL		4	0	12	100n			360m†		0	75	2		TO116
103	WCT265D	2	5.0M%	MON			DTL		4	0	12	100n			360m†		0	75	2		TO116
104	WM215G	2	5.0MΔ	MON			DTL	8	9†	0	8	80n			56m	550m*	-55	125	1	B0266	TO84
105	WM215Q	2	5.0MΔ	MON			DTL	8	9†	0	8	80n			56m	550m*	-55	125	1	B0266	TO91
106	WM215T	2	5.0MΔ	MON			DTL	8	9†	0	8	80n			56m	550m*	-55	125	1	B0266	CN18
107	WM245K	2	5.0M	MON			DTL	2†	6†	0	8	90n			180m	550m	-55	125	2		TO116
108	WM245Q	2	5.0M	MON			DTL	2†	6†	0	6	90n			180m	550m	-55	125	2		TO86
109	WM255K	2	5.0M	MON			DTL	1	6†	0	8	90n			180m	550m	-55	125	2		TO116
110	WM255Q	2	5.0M	MON			DTL	1	6†	0	6	90n			180m	550m	-55	125	2		TO86

4. BINARY OR FLIP - FLOP

IN ORDER OF (1) FLIP-FLOP (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	TYPE No.	TYPE OF FLIP-FLOP	MAX OPERATING FREQ.	PROCESS	LOGIC			FAN		POWER SUPPLY SPAN		PROPAGATION DELAY	MAX.		MAX. TOTAL PKG. DISS.	MAX. NOISE REJECT	TEMP.		CKT PER MOD	DRAWINGS	
	6	1	2 (Hz)	3	LEVEL 4 '1' (V)	LEVEL 5 '0' (V)	TYPE	IN	OUT MAX.	NEG (V)	POS (V)	(s)	RISE TIME tr (s)	FALL TIME tf (s)	(W)	(V)	LOW °C	HI °C		LOGIC DWG. No	OUTLINE DWG. No Δ=MO
1	WM265K	2	5.0M	MON			DTL	1	6†	0	8	90n			180m	550m	-55	125	2		TO116
2	WM265Q	2	5.0M	MON			DTL	1	6†	0	6	90n			180m	550m	-55	125	2		TO86
3	RM215Q	2	5.0M%	MON	2.0	.30	DTL	8	9†	0.0	8.0				56m		-55	125	1	B0255	FP46
4	RC215D	2	5.0M†	MON	2.0%	1.0*	DTL	8	15	0	6.0				55m†	550m	0	75	1	B0255	M105k
5	RC215G	2	5.0M†	MON	2.0%	1.0*	DTL	8	15	0	6.0				55m†	550m	0	75	1	B0255	TO84
6	RC215P	2	5.0M†	MON	2.0%	1.0*	DTL	8	15	0	6.0				55m†	550m	0	75	1	B0255	M105m
7	RC215T	2	5.0M†	MON	2.0%	1.0*	DTL	8	15	0	6.0				55m†	550m	0	75	1	B0255	TO101
8	RM215P	2	5.0M†	MON	2.0%	1.0*	DTL	8	15	0	6.0				55m†	550m	-55	125	1	B0255	M105m
9	WCT215D	2	5.0M%	MON	2.1	1.0	DTL		4	0	12	80n			170m†	550m	0	75	1		TO116
10#	FCJ102	2	5.0M	MON	2.3%	.80*	DTL	7	10	0	6				81m	1.2 Δ	-55	125	1	B0267a	TO84
11#	3ID9093-1	2	5.0M	MON	2.6%	.40*Δ	DTL	4	10	0.0	5.0				100m	1.0	-55	125	2	B02137	FP32
12#	3ID9099-1	2	5.0M	MON	2.6%	.40*Δ	DTL	4	10	0.0	5.0				100m	1.0	-55	125	2	B02101	FP32
13#	6AD9093-1	2	5.0M	MON	2.6%	.40*Δ	DTL	4	10	0.0	5.0				100m	1.0	-55	125	2	B02137	TO116
14#	6AD9099-1	2	5.0M	MON	2.6%	.40*Δ	DTL	4	10	0.0	5.0				100m	1.0	-55	125	2	B02101	TO116
15#	3ID9093-9	2	5.0M	MON	2.6%	.45*Δ	DTL	4	12	0.0	5.0				100m	1.0	0	75	2	B02137	FP32
16#	3ID9099-9	2	5.0M	MON	2.6%	.45*Δ	DTL	4	12	0.0	5.0				100m	1.0	0	75	2	B02101	FP32
17#	6AD9093-9	2	5.0M	MON	2.6%	.45*Δ	DTL	4	12	0.0	5.0				100m	1.0	0	75	2	B02137	TO116
18#	6AD9099-9	2	5.0M	MON	2.6%	.45*Δ	DTL	4	12	0.0	5.0				100m	1.0	0	75	2	B02101	TO116
19	CD2315	2	5.0M%	MON	3.1%	.40*†	DTL	3†	12	0.0	5.0	25n%	75n	75n	140m	1.0 Δ	-55	125	2	B02201	FP44a
20	CD2315D	2	5.0M%	MON	3.1%	.40*†	DTL	3†	12	0.0	5.0	25n%	75n	75n	140m	1.0 Δ	-55	125	2	B02201	TO116
21	CD2317	2	5.0M%	MON	3.1%	.40*†	DTL	3†	12	0.0	5.0	25n%	75n	75n	140m	1.0 Δ	-55	125	2	B02200	FP44a
22	CD2317D	2	5.0M%	MON	3.1%	.40*†	DTL	3†	12	0.0	5.0	25n%	75n	75n	140m	1.0 Δ	-55	125	2	B02200	TO116
23	CD2315E	2	5.0M%	MON	3.1%	.45*†	DTL	3†	12	0.0	5.0	25n%	75n	75n	150m	1.0 Δ	0	75	2	B02201	TO116
24	CD2317E	2	5.0M%	MON	3.1%	.45*†	DTL	3†	12	0.0	5.0	25n%	75n	75n	150m	1.0 Δ	0	75	2	B02200	TO116
25	SFC323	2	5.0M	MON	3.5%	.45*	DTL	5	15	0	8	80n			45m	650m	0	80	1	B0290	ZB163
26	CD2316	2	5.0M%	MON	4.0%	.40*†	DTL	3†	11	0.0	5.0	25n%	75n	65n	162m	1.0 Δ	-55	125	2	B02201a	FP44a
27	CD2316D	2	5.0M%	MON	4.0%	.40*†	DTL	3†	11	0.0	5.0	25n%	75n	65n	162m	1.0 Δ	-55	125	2	B02201a	TO116
28	CD2318	2	5.0M%	MON	4.0%	.40*†	DTL	3†	11	0.0	5.0	25n%	75n	65n	162m	1.0 Δ	-55	125	2	B02200a	FP44a
29	CD2318D	2	5.0M%	MON	4.0%	.40*†	DTL	3†	11	0.0	5.0	25n%	75n	65n	162m	1.0 Δ	-55	125	2	B02200a	TO116
30	CD2316E	2	5.0M%	MON	4.3%	.45*†	DTL	3†	11	0.0	5.0	25n%	75n	65n	175m	1.0 Δ	0	75	2	B02201a	TO116
31	CD2318E	2	5.0M%	MON	4.3%	.45*†	DTL	3†	11	0.0	5.0	25n%	75n	65n	175m	1.0 Δ	0	75	2	B02200a	TO116
32	311AG	2	5.0M	MON	11	1.5		2	5	0.0	12	150n†	160n†	140n†		4.2m	-55	125	1		CN50
33	IF6L	2	5.0M	PCB	0.0	5.5	DTL	5	17	0	5.5				540m		0	55	6	B038p	CB7
34	IF6S	2	5.0M	PCB	0.0	5.5	DTL	5	17	0	5.5				540m		-40	85	6	B038p	CB7
35	IFF0251	2	5.0M	PCB	2.0%	1.1*	DTL	5	10	0	5	90nΔ			250m	500m	0	75	4		CB51
36	IFF0256	2	5.0M	PCB	2.0%	1.1*	DTL	2	10	0	5	30nΔ			545m	500m	0	75	4		CB51
37	IFF2251	2	5.0M	PCB	2.0%	1.1*	DTL	5	10	0	5	90nΔ			250m	500m	0	75	4		CB51
38	IFF2256	2	5.0M	PCB	2.0%	1.1*	DTL	2	10	0	5	30nΔ			545m	500m	0	75	4		CB51
39	FF883	2	5.0M	PCB	2.2%	.70*	DTL		10	0	5	40n			510m	400m	0	75	6		CBØ
40	G121	2	5.0M	PCB	2.5	0.0	DTL	6	12	12	6		20n	50n	1.3	350m	0	75	2	B0264	CB16
41	GA121	2	5.0M	PCB	2.5	0.0	DTL	6	12	12	6.0		20n	50n	1.3	350m	0	75	2	B0264	CB16
42	IFF0254	2	5.0M	PCB	2.5	0.0	DTL	2	8	0.0	5.0	90n			210m	350m	0	75			
43	FJ5101	2	5.0M	PCB	2.6%	.70*	DTL	5	8	0	5	75nΔ				1.0 Δ	0	70	6		CB56
44	9040	2	5.0M	PCB	3.0	0.0	TTL	9		0	5	19n	6.5n	6.5n	300m	900m	0	70	4	B02131	CB54
45	JK31	2	5.0M	PCB	3.0	0.0	DTL	6	30	0	4	65n	210n	100n	660m	4.0	-40	70	5		CB10a
46	JK32	2	5.0M	PCB	3.0	0.0	DTL	6	30	0	4	65n	45n	20n	660m	4.0	-40	75	5		CB10a
47	GFF1-5	2	5.0M	PCB	-10	0.0	RCT	6	9	12	6.0	60n	50n	50n	1.4	1.5	0	55	4	B0240	CB15
48	PL9940-21	2	6.0M	MON	.75%	.45*	RTL	4	2	0	3	165nΔ			15m†		-55	125	1	B0260	ZB155
49	PL9940-23	2	6.0M	MON	.75%	.45*	RTL	4	2	0	3	165nΔ			15m†		0	75	1	B0260	ZB155
50	PL9940A	2	6.0M%	MON	.90	.15	RTL	4	2	0.0	3.0	100nΔ			250m	300m	-55	125	1	B0260	TO78
51	WC225D	2	7.0M%	MON	2.1	1.1	DTL	3	7†	0	6	55n			62m	700m	0	75	1		TO116
52	WC225G	2	7.0M%	MON	2.1	1.1	DTL	3	7†	0	6	55n			62m	700m	0	75	1	B0267	TO84
53#	OMY106	2	7.0M	MON	2.3%	.60*	DTL	5	5	0.0	6.0				55m†	580mΔ	-55	125	1	B0267b	TO74
54#	OMY126	2	7.0M	MON	2.3%	.60*	DTL	5	5	0.0	6.0				55m†	580mΔ	0	75	1	B0267b	TO74
55#	3ID9094-1	2	8.0M	MON	2.6%	.40*Δ	DTL	4	9	0.0	5.0				100m	1.0	-55	125	2	B02137	FP32
56#	3ID9097-1	2	8.0M	MON	2.6%	.40*Δ	DTL	4	9	0.0	5.0				100m	1.0	-55	125	2	B02101	FP32
57#	6AD9094-1	2	8.0M	MON	2.6%	.40*Δ	DTL	4	9	0.0	5.0				100m	1.0	-55	125	2	B02137	TO116
58#	6AD9097-1	2	8.0M	MON	2.6%	.40*Δ	DTL	4	9	0.0	5.0				100m	1.0	-55	125	2	B02101	TO116
59#	3ID9094-9	2	8.0M	MON	2.6%	.45*Δ	DTL	4	11	0.0	5.0				100m	1.0	0	75	2	B02137	FP32
60#	3ID9097-9	2	8.0M	MON	2.6%	.45*Δ	DTL	4	11	0.0	5.0				100m	1.0	0	75	2	B02101	FP32
61#	6AD9094-9	2	8.0M	MON	2.6%	.45*Δ	DTL	4	11	0.0	5.0				100m	1.0	0	75	2	B02137	TO116
62#	6AD9097-9	2	8.0M	MON	2.6%	.45*Δ	DTL	4	11	0.0	5.0				100m	1.0	0	75	2	B02101	TO116
63	RD247	2	9.0M†	MON	4.0%	.40*†	DTL		8	0.0	6.0				50m	800m	-55	125	1	B02199	TO84
64	LU321A	2	10M†		38	.60			13	0	6	35n			90m†	800m	10	55	2		M114c
65	LU322A	2	10M†		38	.60			13	0	6	35n			90m†	800m	10	55	2		M114c
66	SP322A#	2	10M†		38	.60			13	0	6	35n			90m†	800m	0	75	2		M114c
67	HBH25121	2	10M	MOH			DTL	4		0.0	8.0				500m		-55	125	2	B02150	FP28
68	HBH25129	2	10M	MOH			DTL	4		0.0	8.0				100m		0	70	2	B02150	FP28
69	FA340	2	10M	MOH	6.3	0.0	TTL	7†	4	0.0	6.0	30n			2.1		0	55	4	B03145	CB13
70#	SFC323M	2	10M	MON			DTL	2	10			25n			10m†	450m	-55	125	1	B0290	TO100
71#	SFC323PM	2	10M	MON			DTL	2	10			25n			10m†	450m	-55	125	1	B0290	TO91
72#	ZSD92B	2	10MΔ	MON	.40	3.2%†	DTL	4	12	0.0	5.0	45n	10n	30n	250m	1.0 Δ	0	70	2	B02117	TO88
73#	ZSD142B	2	10MΔ	MON	.40	3.2%†	DTL	4	12	0.0	5.0	15n	10n	30n	250m	1.0 Δ	-55	125	2	B02117	TO88
74#	ZSD152B	2	10MΔ	MON	.40	3.2%†	DTL	4	12	0.0	5.0	15n	10n	30n	250m	1.0 Δ	0	70	2	B02117	TO88
75#	ZSF71B	2	10MΔ	MON	.40	3.2	DTL	8	12	0.0	5.0	30n	10n	30n	125m	1.0 Δ	-55	125	1	B0298	TO88
76#	ZSF72B	2	10MΔ	MON	.40	3.2%	DTL	4	12	0.0	5.0	45n	10n	30n	250m	1.0 Δ	-55	125	2	B02117	TO88
77#	ZSF91B	2	10MΔ	MON	.40	3.2	DTL	8	12	0.0	5.0	30n	10n	30n	125m		0	70	1	B0298	TO88
78#	ZSF141B	2	10MΔ	MON	.40	3.2%†	DTL	8	12	0.0	5.0	15n	10n	30n	125m	1.0 Δ	-55	125	1	B0298	TO88
79#	ZSF151B	2	10MΔ	MON	.40	3.2%†	DTL	8	12	0.0	5.0	15n	10n	30n	125m	1.0 Δ	0	70	1	B0298	TO88
80#	ZXD202B	2	10MΔ	MON	.40	3.2%†	DTL	4	12	0.0	5.0	45n	10n	30n	250m	1.0 Δ	-55	125	2	B02117	M105
81#	ZXD211B	2	10MΔ	MON	.40	3.2%†	DTL	4	12	0.0	5.0	15n	10n	30n	250m	1.0 Δ	-55	125	2	B02117	M105
82#	ZXD222B	2	10MΔ	MON	.40	3.2%†	DTL	4	12	0.0	5.0	45n	10n	30n	250m	1.0 Δ	0	70	1	B0298	M105
83#	ZXD231B	2	10MΔ	MON	.40	3.2%†	DTL	4	12	0.0	5.0	15n	10n	30n	250m	1.0 Δ	0	70	1	B02141	M126
84#	ZXF201B	2	10MΔ	MON	.40	3.2	DTL	8	12	0.0	5.0	45n	10n	30n	125m		-55	125	1	B0298	M105
85#	ZXF211B	2	10MΔ	MON	.40	3.2†%	DTL	8	12	0.0	5.0	15n	10n	30n	125m	1.0 Δ	-55	125	1	B0298	M105
86#	ZXF221B	2	10MΔ	MON	.40	3.2	DTL	8	12	0.0	5.0	45n	10n	30n	125m	1.0	0	70	1	B02142	M126
87#	ZXF231B	2	10MΔ	MON	.40	3.2%†	DTL	8	12	0.0	5.0	15n	10n	30n	125m	1.0 Δ	0	70	1	B0298	M105
88	3NB1026	2	10M	MON	.81	.25	RTL	4	16	0.0	4.0	25n	15n	35n	5.6m	355m	-55	125	1	B0227	CN29
89	NB1016	2	10M	MON	.82	.57	RTL	3	4	2.7	3.3	25n	15n	35n	40m	540m	-55	125	1		
90	NB2016	2	10M	MON	.82	.57	RTL	3	4	2.7	3.3	25n	15n	35n	40m	540m	0	100	1		
91	NB3016	2	10M	MON	.82	.57	RTL	3	4	2.7	3.3	25n	15n	35n	40m	540m	15	55	1		
92	3NB2026	2	10M	MON	.84	.25	RTL	4	16	0.0	4.0	25n	15n	35n	5.6m	293m	0	100	1	B0227	CN29
93	3NB4026	2	10M	MON	.84	.25	RTL	4	16	0.0	4.0	25n	15n	35n	5.6m	293m	0	75	1	B0227	CN29
94	3NB3026	2	10M	MON	.91	.25	RTL	4	16	0.0	3.6	25n	15n	35n	5.6m	250m	15	65	1	B0227	CN29
95	FuL92629	2	10M	MON	1.1	.25	RTL	5	32	0.0	3.6	40n			81m	300m	15	55	1	B0220	TO100
96	PL9926	2	10M	MON	1.1	.25	RTL	5	5	0.0	3.0	40n			81m	300m	-55	125	1	B0262	TO100
97	PL9974	2	10M	MON	1.1	.25	RTL	5	5	0.0	3.0	40n			81m	300m	-55	125	1	B0262a	TO78
98	PD7473	2	10MΔØ	MON	2.0%	.80*	TTL	4	10	0.0	5.0	50nΔ			40mΔ	1.0	0	75	2	B0291	M105v
99	PD7476	2	10MΔØ	MON	2.0%	.80*	TTL	5	20	0.0	5.0	50nΔ				1.0 Δ	0	75	2	B0292	M200a
100	PD74107	2	10MΔØ	MON	2.0%	.80*	TTL	4	10	0.0	5.0	50nΔ			40mΔ	1.0	0	75	2	B0291	M105v
101	USN5472A	2	10MØ	MON	2.0%	.80*	TTL	9	10	0	7	50nΔ			10m	1.0 Δ	0	70	1	B0288	TO116
102	USN5472J	2	10MØ	MON	2.0%	.80*	TTL	9	10	0	7	50nΔ			10m	1.0 Δ	0	70	1	B0288	TO88
103	USN7473A	2	10MØ	MON	2.0%	.80*	TTL	4	10	0	7	50nΔ			20m	1.0 Δ	0	70	2	B02130	TO116
104	USN7473J	2	10MØ	MON	2.0%	.80*	TTL	4	10	0.0	7.0	50nΔ			20m	1.0 Δ	0	70	2	B02130	TO88
105	USS5472A	2	10MØ	MON	2.0%	.80*	TTL	9	10	0	7	50nΔ			10m	1.0 Δ	-55	125	1	B0288	TO116
106	USS5472J	2	10MØ	MON	2.0%	.80*	TTL	9	10	0	7	50nΔ			10m	1.0 Δ	-55	125	1	B0288	TO88
107	USS5473A	2	10MØ	MON	2.0%	.80*	TTL	4	10	0	7	50nΔ			20m	1.0 Δ	-55	125	2	B02130	TO116
108	USS5473J	2	10MØ	MON	2.0%	.80*	TTL	4	10	0	7	50nΔ			20m	1.0 Δ	-55	125	2	B02130	TO88
109	G111A	2	10M	PCB	-6.0	0.0	RCT	3	5	12	6	25n	20n	50n	1.1	2.0	-55	71	2	B02163	CB16
110	GA111A	2	10M	PCB	-6.0	0.0	RCT	5	5	12	6.0	25n	20n	50n	1.1	2.0	-55	71	2		CB16

4. BINARY OR FLIP - FLOP

IN ORDER OF (1) FLIP-FLOP (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF FLIP-FLOP	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	579BH	2	12M%Δ	MON	1.8%	1.0*	DTL	7	18	0	6.8	65n			32m		-55	125	1	B02122	TO86
2	RC225D	2	14M†	MON	2.0%	1.0*	DTL	8	10	0	6.0				55m†	550m	0	75	1		M105m
3	RC225G	2	14M	MON	2.0%	1.0*	DTL	8	10†	0.0	6.0	60n%			35m	550m*	0	75	1	B0267a	FP21e
4	RC225P	2	14M†	MON	2.0%	1.0*	DTL	8	10	0	6.0				55m†	550m	0	75	1		M105k
5	RC225T	2	14M	MON	2.0%	1.0*	DTL	8	10†	0.0	6.0	60n%			35m	550m*	0	75	1	B0267a	CN18
6	RM225P	2	14M†	MON	2.0%	1.0*	DTL	8	10	0	6.0				55m†	550m	-55	125	1		M105k
7	WM225G	2	14MΔ	MON	2.0%	1.0*	DTL	9	4	0	10				55m†		-55	125	1	B0267	TO84
8	DM8500E	2	15M%	MON	2.0%	.80*	TTL	5	10	0	7	45nΔ			170m	1.0	0	70	2	B0292	M146
9	DM8501D	2	15M%	MON	2.0%	.80*	TTL	4	10	0	7	45nΔ			170m	1.0	0	70	2	B0291	M75f
10	SN5473	2	15M%	MON	2.0%	.80*	TTL	4	2	0.0	7.0	50nΔ			40mΔ	1.0	-55	125	2	B0291	TO87
11	SN54948	2	15MΔ	MON	2.0%	.80*	TTL	7	20	0	7	50nΔ				1.0	-55	125	1	B0294a	TO84
12	SN54948N	2	15MΔ	MON	2.0%	.80*	TTL	7	20	0	7	50nΔ				1.0	-55	125	1	B0294a	M75a
13	SN74948	2	15MΔ	MON	2.0%	.80*	TTL	7	20	0	7	50nΔ				1.0	0	70	1	B0294a	TO84
14	SN74948N	2	15MΔ	MON	2.0%	.80*	TTL	7	20	0	7	50nΔ				1.0	0	70	1	B0294	M75a
15	TF74948E	2	15MΔ	MON	2.0%	.80*	TTL	7	20	0	7	50nΔ				1.0	0	70	1	B0294	TO116
16	WC7473D	2	15M%	MON	2.0%	.80*	TTL	4	10	0.0	5.3	30n%			40mΔ	1.0	0	75	2	B0291	M126b
17	CL837	2	15M†	PCM			DTL	4	12	0.0	5.0	50n			280m		0	75	4	B0291c	CB▨
18	CL841	2	15M†	PCM			DTL	5	12	0.0	5.0	50n			280m		0	75	4	B02229	CB▨
19	CL838	2	18M†	PCM			DTL	4	11	0.0	5.0	40n			340m		0	75	4	B0291c	CB▨
20	CL842	2	18M†	PCM			DTL	5	11	0.0	5.0	40n			340m		0	75	4	B02229	CB▨
21	9926-2-3F	2	20M%Δ	MON				3	11	4.0	12				500mΔ		0	100	1	B0262	
22	9926-2-5F	2	20M%Δ	MON				3	11	4.0	12				500mΔ		0	100	1	B0262	TO100
23	WM503G	2	20M	MON			DTL		10	0.0	8.0				47m	750m*	-55	125	1	B0214	TO84
24#	ZSF71	2	20M%	MON	.40	3.2	DTL	6	6	0	5	45n	10n	30n	125m	1.0 Δ	-55	125	1		TO88
25#	ZSF91	2	20M%	MON	.40	3.2	DTL	6	6	0	5	45n	10n	30n	125m	1.0 Δ	0	70	1		TO88
26	uL926#1	2	20M†%	MON	1.1	.25	RTL	5	10	0.0	12				56m		-55	125	1	B0270	CN39
27	uL926#2	2	20M†%	MON	1.1	.25	RTL	5	10	0.0	12				56m		0	100	1	B0270	FP17
28	9000-1-3L	2	20M†%	MON	1.7%	.90*	TTL	8		0.0	5.0	12n					-55	125	1	B02185	FP47a
29	9000-1-6B	2	20M†%	MON	1.7%	.90*	TTL	8		0.0	5.0	12n					-55	125	1	B02185	M153a
30	9000-9-3L	2	20M†%	MON	1.8%	.85*	TTL	8		0.0	5.0	12n					0	75	1	B02151	FP47a
31	9000-9-6B	2	20M†%	MON	1.8%	.85*	TTL	8		0.0	5.0	12n					0	75	1	B02151	M153a
32#	5473-1-6A	2	20M%	MON	2.0%	.80*	TTL	4	10	0.0	5.0	40nΔ			50m†		-55	125	2	B02213	M157
33#	5476-1-6B	2	20M%Δ	MON	2.0%	.80*	TTL	5	20	0.0	5.0	20n			100m†	1.0 Δ	-55	125	2	B0292	M153
34#	7473-9-6A	2	20M%	MON	2.0%	.80*	TTL	4	10	0.0	5.0	40nΔ			50m†		0	70	2	B02213	M157
35#	7476-9-6B	2	20M%Δ	MON	2.0%	.80*	TTL	5	20	0.0	5.0	40nΔ				1.0 Δ	0	70	2	B0292	M153
36#	54107-1-6A	2	20M%Δ	MON	2.0%	.80*	TTL	8	40	0.0	5.0	40nΔ				1.0 Δ	-55	125	2	B02211	M157
37#	74107-9-6A	2	20M%	MON	2.0%	.80*	TTL	8	40	0.0	5.0	40nΔ				1.0 Δ	0	70	2	B02211	M157
38	USN7470A	2	20MØ	MON	2.0%	.80*	DTL	9	10	0	7	50nΔ			10m	1.0 Δ	0	70	1	B022	TO116
39	USN7470J	2	20MØ	MON	2.0%	.80*	DTL	9	10	0	7	50nΔ			10m	1.0 Δ	0	70	1	B022	TO88
40	USS5470A	2	20MØ	MON	2.0%	.80*	DTL	9	10	0	7	50nΔ			10m	1.0 Δ	-55	125	1	B022	TO116
41	USS5470J	2	20MØ	MON	2.0%	.80*	DTL	9	10	0	7	50nΔ			10m	1.0 Δ	-55	125	1	B022	TO88
42	6F50G	2	20M	MON	3.3	.26	TTL	10	15	0	5	25nΔ	5.0n	8.0n	40m	900m	-55	125	1	B0274	TO84
43	6F50K	2	20M	MON	3.3	.26	TTL	10	15	0	5	25nΔ	5.0n	8.0n	40m	900m	-55	125	1	B0274	TO116
44	6F51G	2	20M	MON	3.3	.26	TTL	10	7	0	5	25nΔ	5.0n	8.0n	40m	900m	-55	125	1	B0274	TO84
45	6F51K	2	20M	MON	3.3	.26	TTL	10	7	0	5	25nΔ	5.0n	8.0n	40m	900m	-55	125	1	B0274	TO116
46	6F52D	2	20M	MON	3.3	.26	TTL	10	12	0	5	25nΔ	5.0n	8.0n	40m	900m	0	75	1	B0274	TO116
47	6F52G	2	20M	MON	3.3	.26	TTL	10	12	0	5	25nΔ	5.0n	8.0n	40m	900m	0	75	1	B0274	TO84
48	6F53D	2	20M	MON	3.3	.26	TTL	10	6	0	5	25nΔ	5.0n	8.0n	40m	900m	0	75	1	B0274	TO116
49	6F53G	2	20M	MON	3.3	.26	TTL	10	6	0	5	25nΔ	5.0n	8.0n	40m	900m	0	75	1	B0274	TO84
50#	MMF50	2	20M	MON	3.3	.26	TTL	10	15	0.0	5.0	25n	5.0n	8.0n	40m	900m	-55	125	1		
51#	MMF51	2	20M	MON	3.3	.26	TTL	10	7	0.0	5.0	25n	5.0n	8.0n	40m	900m	-55	125	1		
52#	MMF52	2	20M	MON	3.3	.26	TTL	10	12	0.0	5.0	25n	5.0n	8.0n	40m	900m	0	70	1		
53#	MMF53	2	20M	MON	3.3	.26	TTL	10	6	0.0	5.0	25n	5.0n	8.0n	40m	900m	0	75	1		
54	SF50	2	20M	MON	3.3	.26	TTL	10	15	0	5	25nΔ	5.0n	8.0n	40m	900m	-55	125	1	B0274	ZB100
55	SF51	2	20M	MON	3.3	.26	TTL	10	7	0	5	25nΔ	5.0n	8.0n	40m	900m	-55	125	1	B0274	ZB100
56	SF52	2	20M	MON	3.3	.26	TTL	10	12	0	5	25nΔ	5.0n	8.0n	40m	900m	0	75	1	B0274	ZB100
57	SF53	2	20M	MON	3.3	.26	TTL	10	6	0.0	5.0	25nΔ	5.0n	8.0n	40m	900m	0	75	1	B0274	ZB100
58	RF52P	2	20M†	MON	3.4	.20	TTL	6	12	0	5.0				50m†	1.1	0	75	1		M105k
59	RF53P	2	20M†	MON	3.4	.20	TTL	6	6	0	5.0				50m†	1.1	0	75	1		M105k
60	RF60P	2	20M†	MON	3.4	.20	TTL	8	15	0	5.0				55m†	1.1	-55	125	1		M105k
61	RF61P	2	20M†	MON	3.4	.20	TTL	8	7	0	5.0				55m†	1.1	-55	125	1		M105k
62	RF62P	2	20M†	MON	3.4	.20	TTL	8	12	0	5.0				55m†	1.1	0	75	1		M105k
63	RF63P	2	20M†	MON	3.4	.20	TTL	8	6	0	5.0				55m†	1.1	0	75	1		M105k
64	FF983	2	20M	PCB	2.0%	.80*	TTL		10	0	5	50n			225m†	400m	0	70	5		CB▨
65	TF7474E	2	25M%	MON	2.0%	.80*	TTL	4	20	0	7	24n%			43m†	1.0	0	70	2	B0289	TO116
66	MC2009P	2	30M	MON			TTL	10	9						40m		0	75	1	B02105	M114
67	MC2010P	2	30M	MON			TTL	10	9						50m		0	75	1	B02106	M114
68	MC2059P	2	30M	MON			TTL	10	5						40m		0	75	1	B02105	M114
69	MC2060P	2	30M	MON			TTL	10	5						50m		0	75	1	B02106	M114
70	PL9601	2	30M	MON	.82	.49	RTL	6	4	0	3	37nΔ			55m†		-55	125	1	B0254	TO91
71	TFF3111F	2	30MΔ%	MON	1.7%	1.2*	TTL	7	15	0	7	21n			75m†	500mΔ	-55	125	1	B02146	FP21c
72	TFF3111P	2	30MΔ%	MON	1.7%	1.2*	TTL	7	15	0	7	21n			75m†	500mΔ	-55	125	1	B02146	TO116
73	TFF3113F	2	30MΔ%	MON	1.7%	1.2*	TTL	7	7	0	7	21n			75m†	500mΔ	-55	125	1	B02146	FP21c
74	TFF3113P	2	30MΔ%	MON	1.7%	1.2*	TTL	7	7	0	7	21n			75m†	500mΔ	-55	125	1	B02146	TO116
75	TFF3115F	2	30MΔ%	MON	1.7%	1.2*	TTL	5	15	0	7	21n			75m†	500mΔ	-55	125	1	B02146a	FP21c
76	TFF3115P	2	30MΔ%	MON	1.7%	1.2*	TTL	5	15	0	7	21n			75m†	500mΔ	-55	125	1	B02146a	TO116
77	TFF3117F	2	30MΔ%	MON	1.7%	1.2*	TTL	5	7	0	7	21n			75m†	500mΔ	-55	125	1	B02146a	FP21c
78	TFF3117P	2	30MΔ%	MON	1.7%	1.2*	TTL	5	7	0	7	21n			75m†	500mΔ	-55	125	1	B02146a	TO116
79	TFF3121F	2	30MΔ%	MON	1.7%	1.2*	TTL	7	15	0	7	21n			75m†	500mΔ	-55	125	1	B02125	FP21c
80	TFF3121P	2	30MΔ%	MON	1.7%	1.2*	TTL	7	15	0	7	21n			75m†	500mΔ	-55	125	1	B02125	TO116
81	TFF3123F	2	30MΔ%	MON	1.7%	1.2*	TTL	7	7	0	7	21n			75m†	500mΔ	-55	125	1	B02125	FP21c
82	TFF3123P	2	30MΔ%	MON	1.7%	1.2*	TTL	7	7	0	7	21n			75m†	500mΔ	-55	125	1	B02125	TO116
83	TFF3125F	2	30MΔ%	MON	1.7%	1.2*	TTL	5	7	0	7	21n			75m†	500mΔ	-55	125	1	B02125a	FP21c
84	TFF3125P	2	30MΔ%	MON	1.7%	1.2*	TTL	5	7	0	7	21n			75m†	500mΔ	-55	125	1	B02125a	TO116
85	TFF3127F	2	30MΔ%	MON	1.7%	1.2*	TTL	5	15	0	7	21n			75m†	500mΔ	-55	125	1	B02125a	FP21c
86	TFF3127P	2	30MΔ%	MON	1.7%	1.2*	TTL	5	15	0	7	21n			75m†	500mΔ	-55	125	1	B02125a	TO116
87	TFF3161F	2	30MΔ%	MON	1.7%	1.2*	TTL	9	7	0	7	21n			75m†	500mΔ	-55	125	1	B02124	FP21c
88	TFF3161P	2	30MΔ%	MON	1.7%	1.2*	TTL	9	7	0	7	21n			75m†	500mΔ	-55	125	1	B02124	TO116
89	TFF3163F	2	30MΔ%	MON	1.7%	1.2*	TTL	9	15	0	7	21n			75m†	500mΔ	-55	125	1	B02124	FP21c
90	TFF3163P	2	30MΔ%	MON	1.7%	1.2*	TTL	9	15	0	7	21n			75m†	500mΔ	-55	125	1	B02124	TO116
91	TFF3165F	2	30MΔ%	MON	1.7%	1.2*	TTL	7	7	0	7	21n			75m†	500mΔ	-55	125	1	B02124a	FP21c
92	TFF3165P	2	30MΔ%	MON	1.7%	1.2*	TTL	7	7	0	7	21n			75m†	500mΔ	-55	125	1	B02124a	TO116
93	TFF3167F	2	30MΔ%	MON	1.7%	1.2*	TTL	7	15	0	7	21n			75m†	500mΔ	-55	125	1	B02124a	FP21c
94	TFF3167P	2	30MΔ%	MON	1.7%	1.2*	TTL	7	15	0	7	21n			75m†	500mΔ	-55	125	1	B02124a	TO116
95	TFF3173F	2	30MΔ%	MON	1.7%	1.2*	TTL	7	15	0	7	21n			150m†	500mΔ	-55	125	2	B02125b	FP21c
96	TFF3173P	2	30MΔ%	MON	1.7%	1.2*	TTL	7	15	0	7	21n			150m†	500mΔ	-55	125	2	B02125b	TO116
97	TFF3181	2	30MΔ%	MON	1.7%	1.2*	TTL	8	7	0	7	21n			150m†	500mΔ	-55	125	2	B02124b	FP54
98	TFF3183	2	30MΔ%	MON	1.7%	1.2*	TTL	8	15	0	7	21n			150m†	500mΔ	-55	125	2	B02124b	FP54
99	TFF3273F	2	30M%Δ	MON	1.7%	1.2*	TTL	4	7	0	7	20n			80m†	500mΔ	-55	125	2	B0242	FP21c
100	TFF3273P	2	30M%Δ	MON	1.7%	1.2*	TTL	4	7	0	7	20n			80m†	500mΔ	-55	125	2	B0242	TO116
101	TFF3411F	2	30M%Δ	MON	1.7%	1.2*	TTL	10	15	0	7	20n			40m†	500mΔ	-55	125	1	B02129	FP21c
102	TFF3411P	2	30M%Δ	MON	1.7%	1.2*	TTL	10	15	0	7	20n			40m†	500mΔ	-55	125	1	B02129	TO116
103	TFF3413F	2	30M%Δ	MON	1.7%	1.2*	TTL	10	7	0	7	20n			40m†	500mΔ	-55	125	1	B02129	FP21c
104	TFF3413P	2	30M%Δ	MON	1.7%	1.2*	TTL	10	7	0	7	20n			40m†	500mΔ	-55	125	1	B02129	TO116
105	TFF3112F	2	30MΔ%	MON	1.8%	1.2*	TTL	7	15	0	7	21n			75m†	500mΔ	0	75	1	B02146	FP21c
106	TFF3112P	2	30MΔ%	MON	1.8%	1.2*	TTL	7	15	0	7	21n			75m†	500mΔ	0	75	1	B02146	TO116
107	TFF3114F	2	30MΔ%	MON	1.8%	1.2*	TTL	7	7	0	7	21n			75m†	500mΔ	0	75	1	B02146	FP21c
108	TFF3114P	2	30MΔ%	MON	1.8%	1.2*	TTL	7	7	0	7	21n			75m†	500mΔ	0	75	1	B02146	TO116
109	TFF3116F	2	30MΔ%	MON	1.8%	1.2*	TTL	5	15	0	7	21n			75m†	500mΔ	0	75	1	B02146a	FP21c
110	TFF3116P	2	30MΔ%	MON	1.8%	1.2*	TTL	5	15	0	7	21n			75m†	500mΔ	0	75	1	B02146a	TO116

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

4. BINARY OR FLIP - FLOP

IN ORDER OF (1) FLIP-FLOP (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF FLIP-FLOP	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	TFF3118F	2	30MΔ%	MON	1.8%	1.2*	TTL	5	7	0	7	21n			75m†	500mΔ	0	75	1	B02146a	FP21c
2	TFF3118P	2	30MΔ%	MON	1.8%	1.2*	TTL	5	7	0	7	21n			75m†	500mΔ	0	75	1	B02146a	TO116
3	TFF3122F	2	30MΔ%	MON	1.8%	1.2*	TTL	7	15	0	7	21n			75m†	500mΔ	0	75	1	B02125	FP21c
4	TFF3122P	2	30MΔ%	MON	1.8%	1.2*	TTL	7	15	0	7	21n			75m†	500mΔ	0	75	1	B02125	TO116
5	TFF3124F	2	30MΔ%	MON	1.8%	1.2*	TTL	7	7	0	7	21n			75m†	500mΔ	0	75	1	B02125	FP21c
6	TFF3124P	2	30MΔ%	MON	1.8%	1.2*	TTL	7	7	0	7	21n			75m†	500mΔ	0	75	1	B02125	TO116
7	TFF3126F	2	30MΔ%	MON	1.8%	1.2*	TTL	5	7	0	7	21n			75m†	500mΔ	0	75	1	B02125a	FP21c
8	TFF3126P	2	30MΔ%	MON	1.8%	1.2*	TTL	5	7	0	7	21n			75m†	500mΔ	0	75	1	B02125a	TO116
9	TFF3128F	2	30MΔ%	MON	1.8%	1.2*	TTL	5	15	0	7	21n			75m†	500mΔ	0	75	1	B02125a	FP21c
10	TFF3128P	2	30MΔ%	MON	1.8%	1.2*	TTL	5	15	0	7	21n			75m†	500mΔ	0	75	1	B02125a	TO116
11	TFF3162F	2	30MΔ%	MON	1.8%	1.2*	TTL	9	7	0	7	21n			75m†	500mΔ	0	75	1	B02124	FP21c
12	TFF3162P	2	30MΔ%	MON	1.8%	1.2*	TTL	9	7	0	7	21n			75m†	500mΔ	0	75	1	B02124	TO116
13	TFF3164F	2	30MΔ%	MON	1.8%	1.2*	TTL	9	15	0	7	21n			75m†	500mΔ	0	75	1	B02124	FP21c
14	TFF3164P	2	30MΔ%	MON	1.8%	1.2*	TTL	9	15	0	7	21n			75m†	500mΔ	0	75	1	B02124	TO116
15	TFF3166F	2	30MΔ%	MON	1.8%	1.2*	TTL	7	7	0	7	21n			75m†	500mΔ	0	75	1	B02124a	FP21c
16	TFF3166P	2	30MΔ%	MON	1.8%	1.2*	TTL	7	7	0	7	21n			75m†	500mΔ	0	75	1	B02124a	TO116
17	TFF3168F	2	30MΔ%	MON	1.8%	1.2*	TTL	7	15	0	7	21n			75m†	500mΔ	0	75	1	B02124a	FP21c
18	TFF3168P	2	30MΔ%	MON	1.8%	1.2*	TTL	7	15	0	7	21n			75m†	500mΔ	0	75	1	B02124a	TO116
19	TFF3174F	2	30MΔ%	MON	1.8%	1.2*	TTL	7	15	0	7	21n			150m†	500mΔ	0	75	2	B02125b	FP21c
20	TFF3174P	2	30MΔ%	MON	1.8%	1.2*	TTL	7	15	0	7	21n			150m†	500mΔ	0	75	2	B02125b	TO116
21	TFF3182	2	30MΔ%	MON	1.8%	1.2*	TTL	8	7	0	7	21n			150m†	500mΔ	0	75	2	B02124b	FP54
22	TFF3184	2	30MΔ%	MON	1.8%	1.2*	TTL	8	15	0	7	21n			150m†	500mΔ	0	75	2	B02124b	FP54
23	TFF3274F	2	30M%Δ	MON	1.8%	1.2*	TTL	4	7	0	7	20n			80m†	500mΔ	0	75	2	B0242	FP21c
24	TFF3274P	2	30M%Δ	MON	1.8%	1.2*	TTL	4	7	0	7	20n			80m†	500mΔ	0	75	2	B0242	TO116
25	TFF3412F	2	30M%Δ	MON	1.8%	1.2*	TTL	10	15	0	7	20n			40m†	500mΔ	0	75	1	B02129	FP21c
26	TFF3412P	2	30M%Δ	MON	1.8%	1.2*	TTL	10	15	0	7	20n			40m†	500mΔ	0	75	1	B02129	TO116
27	TFF3414F	2	30M%Δ	MON	1.8%	1.2*	TTL	10	7	0	7	20n			40m†	500mΔ	0	75	1	B02129	FP21c
28	TFF3414P	2	30M%Δ	MON	1.8%	1.2*	TTL	10	7	0	7	20n			40m†	500mΔ	0	75	1	B02129	TO116
29	SN54H71F	2	30MΔ%	MON	2.0%	.80*	TTL	10	20	0	7	27nΔ					-55	125	1	B0297	TO84
30	SN54H72F	2	30MΔ%	MON	2.0%	.80*	TTL	9	20	0	7	27nΔ					-55	125	1	B0295	TO84
31	SN54H73F	2	30MΔ%	MON	2.0%	.80*	TTL	4	20	0.0	7.0	19n%			80mΔ	1.0 Δ	-55	125	2	B02155a	TO84
32	SN54H78F	2	30MΔ%	MON	2.0%	.80*	TTL	5	20	0.0	7.0	19n%			80mΔ	1.0 Δ	-55	125	2	B02155	TO84
33	SN74H71F	2	30MΔ%	MON	2.0%	.80*	TTL	10	20	0	7	27nΔ					0	70	1	B0297	TO84
34	SN74H72F	2	30MΔ%	MON	2.0%	.80*	TTL	9	20	0	7	27nΔ					0	70	1	B0295	TO84
35	SN74H73F	2	30MΔ%	MON	2.0%	.80*	TTL	4	20	0.0	7.0	27nΔ			80mΔ	1.0 Δ	0	70	2	B02155a	TO84
36	SN74H78F	2	30MΔ%	MON	2.0%	.80*	TTL	5	20	0.0	7.0	27nΔ			80mΔ	1.0 Δ	0	70	2	B02155	TO84
37	US54H73A	2	30MΔ%	MON	2.0%	.80*	TTL	4	20	0.0	5.0	27nΔ	10n	10n	80mΔ	1.0 Δ	-55	125	2	B02155a	M105b
38	US54H73J	2	30MΔ%	MON	2.0%	.80*	TTL	4	20	0.0	5.0	27nΔ	10n	10n	80mΔ	1.0 Δ	-55	125	2	B02155a	TO88
39	US54H76J	2	30MΔ%	MON	2.0%	.80*	TTL	5	20	0.0	5.0	27nΔ	10n	10n	160m†	1.0 Δ	-55	125	2	B0292	TO88
40	US74H73A	2	30MΔ%	MON	2.0%	.80*	TTL	4	20	0.0	5.0	27nΔ	10n	10n	80mΔ	1.0 Δ	0	70	2	B02155a	M105b
41	US74H73J	2	30MΔ%	MON	2.0%	.80*	TTL	4	20	0.0	5.0	27nΔ	10n	10n	80mΔ	1.0 Δ	0	70	2	B02155a	TO88
42	US74H76J	2	30MΔ%	MON	2.0%	.80*	TTL	5	20	0.0	5.0	27nΔ	10n	10n	160m†	1.0 Δ	0	70	2	B0292	TO88
43	US5471A	2	30MΔ%	MON	2.0%	.80*	TTL	10	20	0.0	7.0	27nΔ					-55	125	1	B0297	M105b
44	US5471J	2	30MΔ%	MON	2.0%	.80*	TTL	10	20	0.0	7.0	27nΔ					-55	125	1	B0297	TO88
45	US7471A	2	30MΔ%	MON	2.0%	.80*	TTL	10	20	0.0	7.0	27nΔ					0	70	1	B0297	M105b
46	US7471J	2	30MΔ%	MON	2.0%	.80*	TTL	10	20	0.0	7.0	27nΔ					0	70	1	B0297	TO88
47#	FHJ101A	2	30M	MON	2.3%	.40*	TTL		9	0	5				40m		0	70	1	B02107	TO116
48#	FHJ101B	2	30M	MON	2.3%	.40*	TTL		5	0	5				40m		0	70	1	B02107	TO116
49#	FHJ121A	2	30M	MON	2.3%	.40*	TTL		9	0	5				70m		0	70	1	B02109	TO116
50#	FHJ121B	2	30M	MON	2.3%	.40*	TTL		5	0	5				70m		0	70	1	B02109	TO116
51	CTuL957	2	30M	MON	2.5	-.50	CTL	6	10	2.0	4.5	5.0n	15n		85m	500m∅	-15	55	1		M54
52	6F260D	2	30M	MON	3.3	.26	TTL	8	11	0	6	20n%	4.0n	6.0n	50m†	450m	-55	125	1	B02109	M126b
53	6F260G	2	30M	MON	3.3	.26	TTL	8	11	0	6	20n%	4.0n	6.0n	50m†	450m	-55	125	1	B02109	FP57
54	6F260K	2	30M	MON	3.3	.26	TTL	8	11	0	6	20n%	4.0n	6.0n	50m†	450m	-55	125	1	B02109	M105h
55	6F261D	2	30M	MON	3.3	.26	TTL	8	6	0	6	20n%	4.0n	6.0n	50m†	450m	-55	125	1	B02109	M126b
56	6F261G	2	30M	MON	3.3	.26	TTL	8	6	0	6	20n%	4.0n	6.0n	50m†	450m	-55	125	1	B02109	FP57
57	6F261K	2	30M	MON	3.3	.26	TTL	8	6	0	6	20n%	4.0n	6.0n	50m†	450m	-55	125	1	B02109	M105h
58	6F262D	2	30M	MON	3.3	.26	TTL	8	9	0	6	20n%	4.0n	6.0n	50m†	600m	0	75	1	B02109	M126b
59	6F262G	2	30M	MON	3.3	.26	TTL	8	9	0	6	20n%	4.0n	6.0n	50m†	600m	0	75	1	B02109	FP57
60	6F262K	2	30M	MON	3.3	.26	TTL	8	9	0	6	20n%	4.0n	6.0n	50m†	600m	0	75	1	B02109	M105h
61	6F263D	2	30M	MON	3.3	.26	TTL	8	5	0	6	20n%	4.0n	6.0n	50m†	600m	0	75	1	B02109	M126b
62	6F263G	2	30M	MON	3.3	.26	TTL	8	5	0	6	20n%	4.0n	6.0n	50m†	600m	0	75	1	B02109	FP57
63	6F263K	2	30M	MON	3.3	.26	TTL	8	5	0	6	20n%	4.0n	6.0n	50m†	600m	0	75	1	B02109	M105h
64	RF250P	2	30M†	MON	3.4	.20	TTL	9	11	0	5.0				50m†	1.1	-55	125	1		M105k
65	RF252P	2	30M†	MON	3.4	.20	TTL	9	9	0	5.0				50m†	1.1	0	75	1		M105k
66	RF253P	2	30M†	MON	3.4	.20	TTL	9	5	0	5.0				50m†	1.1	0	75	1		M105k
67	RF260P	2	30M†	MON	3.4	.20	TTL	8	11	0	5.0				55m†	1.1	-55	125	1		M105k
68	RF261P	2	30M†	MON	3.4	.20	TTL	8	6	0	5				55m†	1.1		125	1		M105k
69	RF262P	2	30M†	MON	3.4	.20	TTL	8	9	0	5				55m†	1.1	0	75	1		M105k
70	RF263P	2	30M†	MON	3.4	.20	TTL	8	5	0	5				55m†	1.1	0	75	1		M105k
71	MC2009F	2	30M†	MON	3.5	.25†	TTL	10	9	0	7				40m†	1.0	0	75	1	B02161	TO85
72	MC2009L	2	30M†	MON	3.5	.25†	TTL	10	9	0.0	5.0				40m†	1.0	0	75	1	B02161	TO116
73	MC2010F	2	30M†	MON	3.5	.25†	TTL	10	9	0	7				50m†	1.0	0	75	1	B02162	TO85
74	MC2010L	2	30M†	MON	3.5	.25†	TTL	10	9	0.0	5.0				50m†	1.0	0	75	1	B02162	TO116
75	MC2059F	2	30M†	MON	3.5	.25†	TTL	10	5	0	7				40m†	1.0	0	75	1	B02161	TO85
76	MC2059L	2	30M†	MON	3.5	.25†	TTL	10	5	0.0	5.0				40m†	1.0	0	75	1	B02161	TO116
77	MC2060F	2	30M†	MON	3.5	.25†	TTL	10	5	0	7				50m†	1.0	0	75	1	B02162	TO85
78	MC2060L	2	30M†	MON	3.5	.25†	TTL	10	5	0.0	5.0				50m†	1.0	0	75	1	B02162	TO116
79	MC2109F	2	30M†	MON	3.5	.25†	TTL	10	11	0	8				40m†	1.0	-55	125	1	B02161	TO85
80	MC2109L	2	30M†	MON	3.5	.25†	TTL	10	11	0	8				40m†	1.0	-55	125	1	B02161	TO116
81	MC2110F	2	30M†	MON	3.5	.25†	TTL	10	11	0	8				50m†	1.0	-55	125	1	B02162	TO85
82	MC2110L	2	30M†	MON	3.5	.25†	TTL	10	11	0	8				50m†	1.0	-55	125	1	B02162	TO116
83	MC2159F	2	30M†	MON	3.5	.25†	TTL	10	6	0	8				40m†	1.0	-55	125	1	B02161	TO85
84	MC2159L	2	30M†	MON	3.5	.25†	TTL	10	6	0	8				40m†	1.0	-55	125	1	B02161	TO116
85	MC2160F	2	30M†	MON	3.5	.25†	TTL	10	6	0	8				50m†	1.0	-55	125	1	B02162	TO85
86	MC2160L	2	30M†	MON	3.5	.25†	TTL	10	6	0	8				50m†	1.0	-55	125	1	B02162	TO116
87	TFF3125	2	30M	MON	3.5	.25	TTL	4	15†	0	6		5.0n	8.0n	75m	1.0	-55	125	1	B02125	
88	TFF3126	2	30M	MON	3.5	.25	TTL	4	15†	0	6		5.0n	8.0n	75m	1.0	0	75	1	B02125	
89	TFF3127	2	30M	MON	3.5	.25	TTL	4	15†	0	6		5.0n	8.0n	75m	1.0	-55	125	1	B02125	
90	TFF3128	2	30M	MON	3.5	.25	TTL	4	15†	0	6		5.0n	8.0n	75m	1.0	0	75	1	B02125	
91	TFF3165	2	30M	MON	3.5	.25	TTL	3	15	0	6		5.0n	8.0n	75m	1.0	-55	125	1	B02124	
92	TFF3166	2	30M	MON	3.5	.25	TTL	3	15	0	6		5.0n	8.0n	75m	1.0	0	75	1	B02124	
93	TFF3167	2	30M	MON	3.5	.25	TTL	3	15	0	6		5.0n	8.0n	75m	1.0	-55	125	1	B02124	
94	TFF3168	2	30M	MON	3.5	.25	TTL	3	15	0	6		5.0n	8.0n	75m	1.0	0	75	1	B02124	
95	CTuL967	2	35M	MON	2.5	-.05	CTL	6	12	2.0	4.5	30n				500m	15	55	1		M54
96	6F100G	2	35M	MON	3.3	.26		4	15†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		TO84
97	6F100K	2	35M	MON	3.3	.26		4	15†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		TO116
98	6F101G	2	35M	MON	3.3	.26		4	7†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		TO84
99	6F101K	2	35M	MON	3.3	.26		4	7†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		TO116
100	6F102D	2	35M	MON	3.3	.26		4	12†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		TO116
101	6F102G	2	35M	MON	3.3	.26		4	12†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		TO84
102	6F103D	2	35M	MON	3.3	.26		4	6†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		TO116
103	6F103G	2	35M	MON	3.3	.26		4	6†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		TO84
104	6F110G	2	35M	MON	3.3	.26		5	15†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		TO84
105	6F110K	2	35M	MON	3.3	.26		5	15†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		TO116
106	6F111G	2	35M	MON	3.3	.26		5	7†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		TO84
107	6F111K	2	35M	MON	3.3	.26		5	7†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		TO116
108	6F112D	2	35M	MON	3.3	.26		5	12†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		TO116
109	6F112G	2	35M	MON	3.3	.26		5	12†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		TO84
110	6F113D	2	35M	MON	3.3	.26		5	6†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		TO116

4. BINARY OR FLIP - FLOP

IN ORDER OF (1) FLIP-FLOP (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF FLIP-FLOP	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	6F113G	2	35M	MON	3.3	.26		5	6†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		TO84
2	SF100	2	35M	MON	3.3	.26		4	15†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		ZB100
3	SF101	2	35M	MON	3.3	.26		4	7†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		ZB100
4	SF102	2	35M	MON	3.3	.26		4	12†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		ZB100
5	SF103	2	35M	MON	3.3	.26		4	6†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		ZB100
6	SF110	2	35M	MON	3.3	.26		5	15†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		ZB100
7	SF111	2	35M	MON	3.3	.26		5	7†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		ZB100
8	SF112	2	35M	MON	3.3	.26		5	12†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		ZB100
9	SF113	2	35M	MON	3.3	.26		5	6†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		ZB100
10	RF100P	2	35M†	MON	3.4	.20	TTL	3	11	0.0	5.0				110m†	1.0	-55	125	2		M105k
11	RF101P	2	35M†	MON	3.4	.20	TTL	3	6	0	5				110m†	1.0	-55	125	2		M105k
12	RF102P	2	35M†	MON	3.4	.20	TTL	3	9	0	5				110m†	1.0	0	75	2		M105k
13	RF103P	2	35M†	MON	3.4	.20	TTL	3	5	0	5				110m†	1.0	0	75	2		M105k
14	RF110P	2	35M†	MON	3.4	.20	TTL	3	11	0	5				110m†	1.0	-55	125	2		M105k
15	RF111P	2	35M†	MON	3.4	.20	TTL	3	6	0	5				110m†	1.0	-55	125	2		M105k
16	RF112P	2	35M†	MON	3.4	.20	TTL	3	9	0	5				110m†	1.0	0	75	2		M105k
17	RF113P	2	35M†	MON	3.4	.20	TTL	3	5	0	5				110m†	1.0	0	75	2		M105k
18	SWF250	2	35M	MON	3.5	.26	TTL	10	12	0.0	6.0	12n	3.0n	5.0n	55m	1.0	-55	125	1		
19	SWF251	2	35M	MON	3.5	.26	TTL	10	6	0.0	6.0	12n	3.0n	5.0n	55m	1.0	-55	125	1		
20	SWF252	2	35M	MON	3.5	.26	TTL	10	10	0.0	6.0	12n	3.0n	5.0n	55m	1.0	0	75	1		
21	SWF253	2	35M	MON	3.5	.26	TTL	10	5	0.0	6.0	12n	3.0n	5.0n	55m	1.0	0	75	1		
22	SWF260	2	35M	MON	3.5	.26	TTL	10	12	0.0	6.0	12n	3.0n	5.0n	55m	1.0	-55	125	1		
23	SWF261	2	35M	MON	3.5	.26	TTL	10	6	0.0	6.0	12n	3.0n	5.0n	55m	1.0	-55	125	1		
24	SWF262	2	35M	MON	3.5	.26	TTL	10	10	0.0	6.0	12n	3.0n	5.0n	55m	1.0	0	75	1		
25	SWF263	2	35M	MON	3.5	.26	TTL	10	5	0.0	6.0	12n	3.0n	5.0n	55m	1.0	0	75	1		
26	TFF3441F	2	40M%Δ	MON	1.7%	1.2*	TTL	10	10	0	7	17n			60m†	500mΔ	-55	125	1	B02129	FP21c
27	TFF3441P	2	40M%Δ	MON	1.7%	1.2*	TTL	10	10	0	7	17n			60m†	500mΔ	-55	125	1	B02129	TO116
28	TFF3443F	2	40M%Δ	MON	1.7%	1.2*	TTL	10	5	0	7	17n			60m†	500mΔ	-55	125	1	B02129	FP21c
29	TFF3443P	2	40M%Δ	MON	1.7%	1.2*	TTL	10	5	0	7	17n			60m†	500mΔ	-55	125	1	B02129	TO116
30	TFF3442F	2	40M%Δ	MON	1.8%	1.2*	TTL	10	10	0	7	17n			60m†	500mΔ	0	75	1	B02129	FP21c
31	TFF3442P	2	40M%Δ	MON	1.8%	1.2*	TTL	10	10	0	7	17n			60m†	500mΔ	0	75	1	B02129	TO116
32	TFF3444F	2	40M%Δ	MON	1.8%	1.2*	TTL	10	5	0	7	17n			60m†	500mΔ	0	75	1	B02129	FP21c
33	TFF3444P	2	40M%Δ	MON	1.8%	1.2*	TTL	10	5	0	7	17n			60m†	500mΔ	0	75	1	B02129	TO116
34	N8H22J	2	50M		2.8	.40	DTL		30	0	6	6n			60m†	1.0	0	75	2		TO88
35	S8H22J	2	50M		2.8	.40	DTL		30	0	6	6n			60m†	1.0	-55	125	2		TO88
36	9001-1-3L	2	50M†%	MON	1.7%	.90*	TTL	8		0.0	5.0	12n					-55	125	1	B02185	FP47a
37	9001-1-6B	2	50M†%	MON	1.7%	.90*	TTL	8		0.0	5.0	12n					-55	125	1	B02185	M153a
38	9020-1-3I	2	50M†%	MON	1.7%	.90*	TTL	5		0.0	5.0	12n					-55	125	2	B02187	FP28b
39	9020-1-6A	2	50M†%	MON	1.7%	.90*	TTL	5		0.0	5.0	12n					-55	125	2	B02187	M157
40	9022-1-3I	2	50M†%	MON	1.7%	.90*	TTL	4		0.0	5.0	12n					-55	125	2	B02187	FP28b
41	9022-1-6A	2	50M†%	MON	1.7%	.90*	TTL	4		0.0	5.0	12n					-55	125	2	B02187	M157
42	9001-9-3L	2	50M†%	MON	1.8%	.85*	TTL	8		0.0	5.0	12n					0	75	1	B02151	FP47a
43	9001-9-6B	2	50M†%	MON	1.8%	.85*	TTL	8		0.0	5.0	12n					0	75	1	B02151	M153a
44	9020-9-3I	2	50M†%	MON	1.8%	.85*	TTL	5		0.0	5.0	12n					0	75	2	B02187	FP28b
45	9020-9-6A	2	50M†%	MON	1.8%	.85*	TTL	5		0.0	5.0	12n					0	75	2	B02187	M157
46	9022-9-3I	2	50M†%	MON	1.8%	.85*	TTL	4		0.0	5.0	12n					0	75	2	B02187	FP28b
47	9022-9-6A	2	50M†%	MON	1.8%	.85*	TTL	4		0.0	5.0	12n					0	75	2	B02187	M157
48	6F120G	2	50M	MON	3.3	.26		4	15†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		TO84
49	6F120K	2	50M	MON	3.3	.26		4	15†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		TO116
50	6F121G	2	50M	MON	3.3	.26		4	7†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		TO84
51	6F121K	2	50M	MON	3.3	.26		4	7†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		TO116
52	6F122D	2	50M	MON	3.3	.26		4	12†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		TO116
53	6F122G	2	50M	MON	3.3	.26		4	12†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		TO84
54	6F123D	2	50M	MON	3.3	.26		4	6†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		TO116
55	6F123G	2	50M	MON	3.3	.26		4	6†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		TO84
56	6F130G	2	50M	MON	3.3	.26		5	15†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		TO84
57	6F130K	2	50M	MON	3.3	.26		5	15†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		TO116
58	6F131G	2	50M	MON	3.3	.26		5	7†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		TO84
59	6F131K	2	50M	MON	3.3	.26		5	7†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		TO116
60	6F132D	2	50M	MON	3.3	.26		5	12†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		TO116
61	6F132G	2	50M	MON	3.3	.26		5	12†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		TO84
62	6F133D	2	50M	MON	3.3	.26		5	6†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		TO116
63	6F133G	2	50M	MON	3.3	.26		5	6†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		TO84
64	SF120	2	50M	MON	3.3	.26		4	15†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		ZB100
65	SF121	2	50M	MON	3.3	.26		4	7†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		ZB100
66	SF122	2	50M	MON	3.3	.26		4	12†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		ZB100
67	SF123	2	50M	MON	3.3	.26		4	6†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		ZB100
68	SF130	2	50M	MON	3.3	.26		5	15†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		ZB100
69	SF131	2	50M	MON	3.3	.26		5	7†	0	5		1.0n†	1.7n†	50m	900m	-55	125	2		ZB100
70	SF132	2	50M	MON	3.3	.26		5	12†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		ZB100
71	SF133	2	50M	MON	3.3	.26		5	6†	0	5		1.0n†	1.7n†	60m	900m	0	75	2		ZB100
72	RF120P	2	50M†	MON	3.4	.20	TTL	3	11	0	5				110m†	1.0	-55	125	2		M105k
73	RF121P	2	50M†	MON	3.4	.20	TTL	3	6	0	5				110m†	1.0	-55	125	2		M105k
74	RF122P	2	50M†	MON	3.4	.20	TTL	3	9	0	5				110m†	1.0	0	75	2		M105k
75	RF123P	2	50M†	MON	3.4	.20	TTL	3	5	0	5				110m†	1.0	0	75	2		M105k
76	RF130P	2	50M†	MON	3.4	.20	TTL	3	11	0	5				110m†	1.0	-55	125	2		M105k
77	RF131P	2	50M†	MON	3.4	.20	TTL	3	6	0	5				110m†	1.0	-55	125	2		M105k
78	RF132P	2	50M†	MON	3.4	.20	TTL	3	9	0	5				110m†	1.0	0	75	2		M105k
79	RF133P	2	50M†	MON	3.4	.20	TTL	3	5	0	5				110m†	1.0	0	75	2		M105k
80	RF200P	2	50M†	MON	3.4	.20	TTL	6	11	0	5				55m†	1.0	-55	125	1		M105k
81	RF201P	2	50M†	MON	3.4	.20	TTL	6	6	0.0	5.0				55m†	1.0	-55	125	1		M105k
82	RF202P	2	50M†	MON	3.4	.20	TTL	6	9	0	5				55m†	1.0	0	75	1		M105k
83	RF203P	2	50M†	MON	3.4	.20	TTL	6	5	0	5				55m†	1.0	0	75	1		M105k
84	RF210P	2	50M†	MON	3.4	.20	TTL	8	11	0	5				55m†	1.0	-55	125	1		M105k
85	RF211P	2	50M†	MON	3.4	.20	TTL	8	6	0	5				55m†	1.0	-55	125	1		M105k
86	RF212P	2	50M†	MON	3.4	.20	TTL	8	9	0	5				55m†	1.0	0	75	1		M105k
87	RF213P	2	50M†	MON	3.4	.20	TTL	8	5	0	5				55m†	1.0	0	75	1		M105k
88	TF401	2	50M	MON	3.5	.25	TTL	3	15	0	6		5.0n	8.0n	75m	1.0 Δ	-55	125	1		ZB159
89	TF402	2	50M	MON	3.5	.25	TTL	3	15	0	6		5.0n	8.0n	75m	1.0 Δ	0	75	1		ZB159
90	TF403	2	50M	MON	3.5	.25	TTL	3	7	0	6		5.0n	8.0n	75m	1.0 Δ	-55	125	1		ZB159
91	TF404	2	50M	MON	3.5	.25	TTL	3	7	0	6		5.0n	8.0n	75m	1.0 Δ	0	75	1		ZB159
92	TF411	2	50M	MON	3.5	.25	TTL	3	15	0	6		5.0n	8.0n	75m	1.0 Δ	-55	125	1		ZB159
93	TF412	2	50M	MON	3.5	.25	TTL	3	15	0	6		5.0n	8.0n	75m	1.0 Δ	0	75	1		ZB159
94	TF413	2	50M	MON	3.5	.25	TTL	3	7	0	6		5.0n	8.0n	75m	1.0 Δ	-55	125	1		ZB159
95	TF414	2	50M	MON	3.5	.25	TTL	3	7	0	6		5.0n	8.0n	75m	1.0 Δ	0	75	1		ZB159
96	TFF3251F	2	50M	MON	3.5	.25	TTL	4	15†	0.0	6.0		1.0n†	1.7n†	50m	1.0 Δ	-55	125	2		FP18
97	TFF3251P	2	50M	MON	3.5	.25	TTL	4	15†	0.0	6.0		1.0n†	1.7n†	50m	1.0 Δ	-55	125	2		TO116
98	TFF3252F	2	50M	MON	3.5	.25	TTL	4	7†	0.0	6.0		1.0n†	1.7n†	50m	1.0 Δ	0	75	2		FP18
99	TFF3252P	2	50M	MON	3.5	.25	TTL	4	7†	0.0	6.0		1.0n†	1.7n†	50m	1.0 Δ	0	75	2		TO116
100	TFF3253F	2	50M	MON	3.5	.25	TTL	4	15†	0.0	6.0		1.0n†	1.7n†	50m	1.0 Δ	-55	125	2		FP18
101	TFF3253P	2	50M	MON	3.5	.25	TTL	4	15†	0.0	6.0		1.0n†	1.7n†	50m	1.0 Δ	-55	125	2		TO116
102	TFF3254F	2	50M	MON	3.5	.25	TTL	4	7†	0.0	6.0		1.0n†	1.7n†	50m	1.0 Δ	0	75	2		FP18
103	TFF3254P	2	50M	MON	3.5	.25	TTL	4	7†	0.0	6.0		1.0n†	1.7n†	50m	1.0 Δ	0	75	2		TO116
104	TFF3511	2	50M	MON	3.5	.25	TTL	8	15†	0	6		5.0n	8.0n	150m	1.0 Δ	-55	125	1	B02128	ZB158
105	TFF3513	2	50M	MON	3.5	.25	TTL	8	7†	0	6		5.0n	8.0n	150m	1.0 Δ	-55	125	1	B02128	ZB158
106	MC1013L	2	70MØ	MON	-.75	-1.6	ECT	10	50	8	0	6.0n	7.5n	7.5n	125m†	175m	0	75	1	B02104	TO116
107	RF3120P	2	75M†	MON			DTL	3	11	0	5				110m†	1.1	-55	125	2		M105k
108	RF3122P	2	75M†	MON			DTL	3	9	0	5				110m†	1.1	0	75	2		M105k
109	RF3130P	2	75M†	MON			TTL	3	11	0	5				110m†	1.1	-55	125	2		M105k
110	RF3132P	2	75M†	MON			TTL	3	9	0	5				110m†	1.1	0	75	2		M105k

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

4. BINARY OR FLIP - FLOP

IN ORDER OF (1) FLIP-FLOP (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF FLIP-FLOP	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC			FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (s)	MAX.		MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP.		CKT PER MOD	DRAWINGS	
					LEVEL 4 '1' (V)	LEVEL 5 '0' (V)	TYPE	IN	OUT MAX.	NEG (V)	POS (V)		RISE TIME tr (s)	FALL TIME tf (s)			LOW °C	HI °C		LOGIC DWG. No	OUTLINE DWG. No Δ=MO
1	RF3200P	2	75M†	MON			DTL	8	11	0	5				55m†	1.1	-55	125	1		M105k
2	RF3202P	2	75M†	MON			DTL	8	9	0	5				55m†	1.1	0	75	1		M105k
3	RF3210P	2	75M†	MON			DTL	8	11	0	5				55m†	1.1	-55	125	1		M105k
4	RF3212P	2	75M†	MON			DTL	8	9	0	5				55m†	1.1	0	75	1		M105k
5	TF74S112F	2	80M	MON	2.0%	.80	TTL	5	20	0.0	5.0	5.0n			250m	1.0	0	70	2	B02257	Δ004ag
6	N8H20J	2	80M†%	MON	2.6%	.40*†	TTL	4	30	0	5	9.0n%		50n	90mΔ	600m	0	75	2	B0292b	TO88
7	N8H21J	2	80M†%	MON	2.6%	.40*†	TTL	5	30	0	5	9.0n%		50n	90mΔ	600m	0	75	2	B0292c	TO88
8	S8H20J	2	80M†%	MON	2.6%	.40*†	TTL	4	30	0	5	9.0n%		50n	90mΔ	600m	-55	125	2	B0292b	TO88
9	S8H21J	2	80M†%	MON	2.6%	.40*†	TTL	5	30	0	5	9.0n%		50n	90mΔ	600m	-55	125	2	B0292c	TO88
10	MC1027L	2	100M	MON	-.75	-1.6	ECT	10	50	8	0	4.0n	6.0n	6.0n	250m†	175m	0	75	1	B02104	TO116
11	SN1511	2.3	10M	MON	2.5	.40	DTL	10	7	0.0	5.5	50n			20m	750m	-55	125	1		TO84
12	MIC931	2,3					DTL	5	7	0	4	50n			20m	600m		T 8	1		ZB86
13	2FBM	2,3	200k	PCB	-10	0.0	RCT	6	6	12	12				275m		0	50	2	B0210	CB19
14	2FBH	2,3	1.0M	PCB	-10	0.0	RCT	6	6	12	12				400m		0	50	2	B0210	CB19
15	CD2203	2,3	1.2MΔ	MON	3.4	.10	DTL	10	5	0.0	8.0				15m	1.2 Δ	-55	125	1	B0296	FP44
16	UF5105	2,3	5.0M	PCB	2.6%	.70*	DTL	7	9	0.0	5.0	75nΔ				1.0 Δ	0	70	4	B02186	CB56
17	DTuL931	2,3	6.0M	MON	4.5	.30	DTL	7		0.0	5.0					50m	-55	125	1		FP30
18	SI931D	2,3	6.0M	MON	4.5	.30	DTL	7	9	0.0	5.0	55n			35m	700m	0	75	1	B0381	FP30
19	SN1513	2,3	10M	MON	2.5	.40	DTL	9	7	0.0	55	45n			20m	750m	-55	125	1		TO84
20	SN1590	2,3	10M	MON	2.5	.40	DTL	7	7	0.0	5.5	50n			20m	750m	0	70	1		TO84
21	SN1590P	2,3	10M	MON	2.5	.40	DTL	7	7	0.0	5.5	50n			20m	750m	0	70	1		M63
22	SN1591	2,3	10M	MON	2.5	.40	DTL	10	7	0.0	5.5	50n			20m	750m	0	70	1		TO84
23	SN1591P	2,3	10M	MON	2.5	.40	DTL	10	7	0.0	5.5	50n			20m	750m	0	70	1		M63
24	SN1593	2,3	10M	MON	2.5	.40	DTL	9	7	0.0	5.5	45n			20m	750m	0	70	1		TO84
25	SN1593P	2,3	10M	MON	2.5	.40	DTL	9	7	0.0	5.5	45n			20m	750m	0	70	1		M63
26	CL845	2,3	15M†	PCM			DTL	7	12	0.0	5.0	50n			140m		0	75	2	B0288a	CB⧄
27	CL846	2,3	18M†	PCM			DTL	7	11	0.0	5.0	40n			170m		0	75	2	B0288a	CB⧄
28	SI831	2,4		MON	2.0	1.1	DTL	7	2	0	5.5	100nΔ					0	75	1		TO84
29	SI845	2,4		MON	2.0	1.1	DTL	7	2	0	5.5	100nΔ					0	75	1		TO84
30	SI931	2,4		MON	2.0	1.1	DTL	7	2	0	5.5	100nΔ					-55	125	1		TO84
31	SI945	2,4		MON	2.0	1.1	DTL	7	2	0	5.5	100nΔ					-55	125	1		TO84
32	Q420	2,4	25k	PCB	.20	12	DTL	4	2	12	12	1.0u	1.5u	5.0u			-20	65	1	B02133	M59
33	IFF0252	2,4	5.0M	PCB	2.0%	1.1*	DTL	7†	11%	0.0	5.0	90nΔ			210m	500m	0	75	4		CB51
34	IFF2252	2,4	5.0M	PCB	2.0%	1.1*	DTL	7†	11%	0.0	5.0	90nΔ			210m	500m	0	75	4		CB51
35	A03A	2,4	10M	MON	2.7	1.7	DTL	8	5	0	5	60n	18n†	5.0n†	54m	900m	-55	125	1	B02123	CN16a
36	A03F	2,4	10M	MON	2.7	1.7	DTL	8	5	0	5	60n	18n†	5.0n†	54m	900m	-55	125	1	B02123	TO84
37	A09A	2,4	10M	MON	2.7	1.7	DTL	8	5	0	5	52n	18n†	5.0n†	72m	900m	-55	125	1	B02123	CN16a
38	A09F	2,4	10M	MON	2.7	1.7	DTL	8	5	0.0	5.0	52n	18n†	5.0n†	72m	900m	-55	125	1	B02123	TO84
39	A43A	2,4	10M	MON	2.7	1.7	DTL	8	5	0	5	60n	18n†	5.0n†	54m	900m	0	70	1	B02123	CN16a
40	A43F	2,4	10M	MON	2.7	1.7	DTL	8	5	0	5	60n	18n†	5.0n†	54m	900m	0	70	1	B02123	TO84
41	A49A	2,4	10M	MON	2.7	1.7	DTL	8	5	0	5	52n	18n†	5.0n†	72m	900m	0	70	1	B02123	CN16a
42	A49F	2,4	10M	MON	2.7	1.7	DTL	8	5	0	5	52n	18n†	5.0n†	72m	900m	0	70	1	B02123	TO84
43	SP826A	2,6		MON	2.4	.45	TTL	4		0	6				120m	2.0	15	55	2	B02108	TO116
44	ST826A	2,6		MON	2.4	.45	TTL	4		0	6				120m	2.0	0	70	2	B02108	TO116
45	NE8826A	2,6		MON	2.8%	.4*†	TTL	4		0	6	35nΔ		50n	120m		0	75	2	B02108	TO116
46	NE8826J	2,6		MON	2.8%	.4*†	TTL	4		0	6	35nΔ		50n	120m		0	75	2	B02108	TO88
47	SE8826A	2,6		MON	2.8%	.4*†	TTL	4		0	6	35nΔ		50n	120m		-55	125	2	B02108	TO116
48	SE8826J	2,6		MON	2.8%	.4*†	TTL	4		0	6	35nΔ		50n	120m		-55	125	2	B02108	TO88
49	ST620A	2,6	5.0M†	MON			DTL	5	5	0.0	6.0				120m	1.0 Δ	0	70	1	B0216a	M105
50	USN7479A	2,6	25MØ	MON	2.0%	.80*	TTL	4	5	0	7	35nΔ			20m	1.0 Δ	0	70	2	B02160	TO116
51	USN7479J	2,6	25MØ	MON	2.0%	.80*	TTL	4	5	0	7	35nΔ			20m	1.0 Δ	0	70	2	B02160	TO88
52	USS5479A	2,6	25MØ	MON	2.0%	.80*	TTL	4	5	0	7	35nΔ			20m	1.0 Δ	-55	125	2	B02160	TO116
53	USS5479J	2,6	25MØ	MON	2.0%	.80*	TTL	4	5	0	7	35nΔ			20m	1.0 Δ	-55	125	2	B02160	TO88
54	SE826J	2,6	30M	MON	2.4	.45†	TTL	4	5	0.0	6.0		10n	10n	64m	1.0 Δ	-55	125	2	B02108	TO88
55	NE826A	2,6	30M	MON	3.1	.20†	TTL	4		0	5.5	20nΔ			32m	2.0	0	70	2	B02108	TO116
56	NE826J	2,6	30M†	MON	3.1	.20†	TTL	4	5				10n	10n	64m	1.0 Δ	0	70	2	B02108	TO88
57	SP825A	2,6F		MON	2.4	.45	TTL	9		0	6				135m	2.0	15	55	1	B0273	TO116
58	ST825A	2,6F		MON	2.4	.45	TTL	9		0	6				135m	2.0	0	70	1	B0273	TO116
59	NE8825A	2,6F		MON	2.8%	.4†*	TTL	9		0	6	50nΔ		50n	130m	600mΔ	0	75	1	B0273	TO116
60	NE8825J	2,6F		MON	2.8%	.4†*	TTL	9		0	6	50nΔ		50n	130m	600mΔ	0	75	1	B0273	TO88
61	SE8825A	2,6F		MON	2.8%	.4†*	TTL	9		0	6	50nΔ		50n	130m	600mΔ	-55	125	1	B0273	TO116
62	SE8825J	2,6F		MON	2.8%	.4†*	TTL	9		0	6	50nΔ		50n	130m	600mΔ	-55	125	1	B0273	TO88
63	SE825J	2,6F	20M†	MON	2.4	.45†	TTL	9	8	0.0	6.0		150n	150n	70m	1.0 Δ	-55	125	1	B0273	TO88
64	NE825J	2,6F	20M†	MON	3.1	.20†	TTL	9	10		5.5		150n	150n	70m	1.0 Δ	0	70	1	B0273	TO88
65	FC15	2B	300k	PCB	8.0	0.0	DTL	15	12	25	25	150n%	90n	60n	2.4	3.9	-55	100	4	B0247	CB34
66	FC18	2B	300k	PCB	8.0	0.0	DTL	15	9	25	25	150n%	90n	60n	2.0	3.9	-55	100	2	B0248	CB34
67	FH15	2B	1.0M	PCB	8.0	0.0	DTL	10	6	25	25	100n%	65n	35n	2.9	3.9	-55	100	4	B0247	CB34
68	FH18	2B	1.0M	PCB	8.0	0.0	DTL	10	8	25	25	100n%	65n	35n	3.6	3.9	-55	100	2	B0248	CB34
69	PL9600	2C	30M	MON	.82	.49	RTL	6	4	0	3	37nΔ			55m†		-55	125	1	B0254a	TO91
70	DBFF1005	2F		PCM	6.0%	1†*	CTL	10	10	6	12	50nΔ	40n	20n					1	B0218	M52
71	DCFF1005	2F		PCM	6.0%	1†*	CTL	10	10	6	12	50nΔ	40n	20n					1	B0218	CB29
72	FL21	2F	8.0	PCB	8.0	0.0	DTL	10	10	25	25	60n%	20u	15u	4.9	3.5	-55	100	4	B0225	CB34
73	FL22	2F	8.0	PCB	8.0	0.0	DTL	10	16	25	25	60n%	20n	15n	4.2	3.5	-55	100	2	B0249	CB34
74	QF21	2F	100k	PCB	0.0	-10	RCT	6	10	12	6.0	300n%	1.0u	4.0u	370m	1.5	-20	55	4	B0250	CB10
75	FF2713B	2F	200k	3DM	5.0Δ	2.0	RTL	4	6	0.0	15	200n%	300n	100n	5.0m	2.9	-55	125	1		M57
76	FF2723B	2F	200k	3DM	5.0Δ	2.0	RTL	4	6	0.0	15	200n%	300n	100n	5.0m	2.9	-55	125	1		M57a
77	SQF21	2F	300k	PCB	0.0	8.0	RCT	6	10	12	12	180n%	500n	1.0u	360m	1.5	-14	75	4	B0250	CB10
78	QF1	2F	300k	PCB	0.0	-10	RCT	6	10	12	6.0	180n%	500n	1.0u	380m	1.5	-20	55	4	B0250	CB10
79	FC20	2F	300k	PCB	8.0	0.0	DTL	15	12	25	25	150n%	90n	60n	2.4	3.9	-55	100	4	B0224	CB34
80	DBFF1005ZA	2F	1.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	0	50	1	B0218	M52
81	DBFF1005ZAN	2F	1.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	0	50	1	B0218	MP52a
82	DBFF1005ZB	2F	1.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-20	75	1	B0218	M52
83	DBFF1005ZBN	2F	1.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-20	75	1	B0218	MP52a
84	DBFF1005ZC	2F	1.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-40	100	1	B0218	M52
85	DBFF1005ZCN	2F	1.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-40	100	1	B0218	MP52a
86	DBFF1005ZD	2F	1.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-55	125	1	B0218	M52
87	DBFF1005ZDN	2F	1.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-55	125	1	B0218	MP52a
88	DBFF1026XAN	2F	1.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	0	50	1	B0219	MP52a
89	DBFF1026XBN	2F	1.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-20	75	1	B0219	MP52a
90	DBFF1026XCN	2F	1.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-40	100	1	B0219	MP52a
91	DBFF1026XDN	2F	1.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-55	125	1	B0219	MP52a
92	DBFF1026YAN	2F	1.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	0	50	1	B0219	MP52a
93	DBFF1026YBN	2F	1.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-20	75	1	B0219	MP52a
94	DBFF1026YCN	2F	1.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-40	100	1	B0219	MP52a
95	DBFF1026YDN	2F	1.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350n	-55	125	1	B0219	MP52a
96	DBFF1026ZA	2F	1.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	0	50	1	B0219	M52
97	DBFF1026ZAN	2F	1.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	0	50	1	B0219	MP52a
98	DBFF1026ZB	2F	1.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-20	75	1	B0219	M52
99	DBFF1026ZBN	2F	1.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-20	75	1	B0219	MP52a
100	DBFF1026ZC	2F	1.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-40	100	1	B0219	M52
101	DBFF1026ZCN	2F	1.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-40	100	1	B0219	MP52a
102	DBFF1026ZD	2F	1.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-55	125	1	B0219	M52
103	DBFF1026ZDN	2F	1.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-55	125	1	B0219	MP52a
104	DCFF1005ZA	2F	1.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	0	50	1	B0218	CB29
105	DCFF1005ZB	2F	1.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-20	75	1	B0218	CB29
106	DCFF1005ZC	2F	1.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-40	100	1	B0218	CB29
107	DCFF1005ZD	2F	1.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-55	125	1	B0218	CB29
108	DCFF1026ZA	2F	1.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	0	50	1	B0219	CB29
109	DCFF1026ZB	2F	1.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-20	75	1	B0219	CB29
110	DCFF1026ZC	2F	1.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-40	100	1	B0219	CB29

4. BINARY OR FLIP - FLOP

IN ORDER OF (1) FLIP-FLOP (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF FLIP-FLOP	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	DCFF1026ZD	2F	1.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-55	125	1	B0219	CB29
2	FH20	2F	1.0M	PCB	8.0	0.0	DTL	10	12	25	25	100n%	65n	35n	2.9	3.9	-55	100	4	B0224	CB34
3	G221	2F	1.0M	PCB	-6.0	0.0	RCT	10	10	12	6.0	25n	100n	300n	600m		-55	71	2		CB16
4	GA221	2F	1.0M	PCB	-6.0	0.0	RCT	10	10	12	6.0	250n	100n	300n	600n		-55	71	2		CB16
5	FF4714C	2F	1.0M	TFH	5.0Δ	2.0	RCT	1	5	0	15	50n%	80n	30n	5.0m	2.9	-55	125	1		M57
6	FF4724C	2F	1.0M	TFH	5.0Δ	2.0	RCT	1	5	0	15	50n%	80n	30n	5.0m	2.9	-55	125	1		M57a
7	FF7714C	2F	1.0M	TFH	5.0	2.0	RCT	2	5	0.0	15	50n	50n	25n	5.0m	3.0	-55	125	1	B0236	
8	FF7724C	2F	1.0M	TFH	5.0	2.0	RCT	2	5	0	15	50n	50n	25n	5.0m	3.0	-55	125	1	B0236	
9	FF2514B	2F	1.0M	3DM	5.0Δ	2.0	RTL	4	6	0	12	50n%	80n	30n	25m	2.9	-55	125	1	B0226	M57
10	FF2524B	2F	1.0M	3DM	5.0Δ	2.0	RTL	4	6	0	12	50n%	80n	30n	25m	2.9	-55	125	1	B0226	M57a
11	SQF1	2F	1.5M	PCB	0.0	8.0	RCT	6	10	12	12	120n%	150n	250n	985m	1.5	-40	75	4	B0250	CB10
12	QF1A	2F	2.0M	PCB	0.0	-10	RCT	6	7	12	6	50n%	100n	250n	760m	1.5	-20	55	4	B0250	CB10
13	FF2414B	2F	2.0M	3DM	5.0Δ	2.0	RTL	4	6	0	9	30n%	60n	20n	133m	2.9	-55	125	1	B0226	M57
14	FF2424B	2F	2.0M	3DM	5.0Δ	2.0	RTL	4	6	0	9	30n%	60n	20n	133m	2.9	-55	125	1	B0226	M57a
15	1039-0002	2F	2.0M	3DM	10.5	0.0		5	8	13	13	40nΔ		95n			-55	85		B0213	M26
16	DBFF1005YA	2F	5.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	0	50	1	B0218	M52
17	DBFF1005YAN	2F	5.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	0	50	1	B0218	MP52a
18	DBFF1005YB	2F	5.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-20	75	1	B0218	M52
19	DBFF1005YBN	2F	5.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-20	75	1	B0218	MP52a
20	DBFF1005YC	2F	5.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-40	100	1	B0218	M52
21	DBFF1005YCN	2F	5.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-40	100	1	B0218	MP52a
22	DBFF1005YD	2F	5.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-55	125	1	B0218	M52
23	DBFF1005YDN	2F	5.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-55	125	1	B0218	MP52a
24	DBFF1026YA	2F	5.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	0	50	1	B0219	M52
25	DBFF1026YB	2F	5.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-20	75	1	B0219	M52
26	DBFF1026YC	2F	5.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-40	100	1	B0219	M52
27	DBFF1026YD	2F	5.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-55	125	1	B0219	M52
28	DCFF1005YA	2F	5.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	0	50	1	B0218	CB29
29	DCFF1005YB	2F	5.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-20	75	1	B0218	CB29
30	DCFF1005YC	2F	5.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-40	100	1	B0218	CB29
31	DCFF1005YD	2F	5.0M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-55	125	1	B0218	CB29
32	DCFF1026YA	2F	5.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	0	50	1	B0219	CB29
33	DCFF1026YB	2F	5.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-20	75	1	B0219	CB29
34	DCFF1026YC	2F	5.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-40	100	1	B0219	CB29
35	DCFF1026YD	2F	5.0M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-55	125	1	B0219	CB29
36	QF2	2F	5.0M	PCB	0.0	-10	RCT	6	7	12	6	100n%	50n	150n	760m	1.5	-20	55	4	B0250	CB10
37	FF4515C	2F	5.0M	TFH	5.0Δ	2.0	RCT	1	5	0	12	20n%	40n	15n	25m	2.0	-55	125	1	B0226a	M57
38	FF4525C	2F	5.0M	TFH	5.0Δ	2.0	RCT	1	5	0.0	12	20n%	40n	15n	25m	2.0	-55	125	1	B0226a	M57a
39	FF7515C	2F	5.0M	TFH	5.0	2.0	RCT	2	5	0.0	12	20n	35n	15n	24m	2.5	-55	125	1	B0236	
40	FF7525C	2F	5.0M	TFH	5.0	2.0	RCT	2	5	0	12	20n	35n	15n	24m	2.5	-55	125	1	B0236	
41	DBFF1005XA	2F	10M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	0	50	1	B0218	M52
42	DBFF1005XAN	2F	10M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	0	50	1	B0218	MP52a
43	DBFF1005XB	2F	10M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-20	75	1	B0218	M52
44	DBFF1005XBN	2F	10M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-20	75	1	B0218	MP52a
45	DBFF1005XC	2F	10M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-40	100	1	B0218	M52
46	DBFF1005XCN	2F	10M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-40	100	1	B0218	MP52a
47	DBFF1005XD	2F	10M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-55	125	1	B0218	M52
48	DBFF1005XDN	2F	10M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-55	125	1	B0218	MP52a
49	DBFF1026XA	2F	10M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	0	50	1	B0219	M52
50	DBFF1026XB	2F	10M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-20	75	1	B0219	M52
51	DBFF1026XC	2F	10M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-40	100	1	B0219	M52
52	DBFF1026XD	2F	10M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-55	125	1	B0219	M52
53	DCFF1005XA	2F	10M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	0	50	1	B0218	CB29
54	DCFF1005XB	2F	10M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-20	75	1	B0218	CB29
55	DCFF1005XC	2F	10M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-40	100	1	B0218	CB29
56	DCFF1005XD	2F	10M		6.0	1.0†	CTL	10	10	6.0	12	50n	40n	20n		350m	-55	125	1	B0218	CB29
57	DCFF1026XA	2F	10M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	0	50	1	B0219	CB29
58	DCFF1026XB	2F	10M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-20	75	1	B0219	CB29
59	DCFF1026XC	2F	10M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-40	100	1	B0219	CB29
60	DCFF1026XD	2F	10M		6.0	1.0†	CTL	7	10	6.0	12	50n	64n	20n		350m	-55	125	1	B0219	CB29
61	PD7472	2F	10MΔØ	MON	2.0%	.80*	TTL	9	20	0.0	5.0	50nΔ			40m	1.0	0	75	1	B0288	M105v
62	RD237	2F	10M	MON	3.3	.25†	DTL	6	10	0	5.5	50n			43m	1.2	-55	125	1		TO84
63	RD337	2F	10M	MON	3.3	.25†	DTL	6	5	0	5.5	50n			43m	1.2	-55	125	1		TO84
64	RD537	2F	10M	MON	3.3	.25†	DTL	6	10	0	5.5	50n			43m	1.2	0	75	1		TO84
65	FF4415C	2F	10M†	TFH	5.0Δ	2.0	RCT	1	5	0	9	12n%	30n	10n	50m	2.0	-55	125	1	B0226a	M57
66	FF4425C	2F	10M†	TFH	5.0Δ	2.0	RCT	1	5	0	9	12n%	30n	10n	50m	2.0	-55	125	1	B0226a	M57a
67	FF7416C	2F	10M	TFH	5.0	2.0	RCT	2	5	0	9	12n	25n	10n	48m	2.0	-55	125	1	B0236	
68	FF7426C	2F	10M	TFH	5.0	2.0	RCT	2	5	0	9	12n	25n	10n	48m	2.0	-55	125	1	B0236	
69	NC472N	2F	15M%	MON	2.0%	.80*	TTL	9	10	0.0	7.0	13n%			10m†	1.0	0	70	1	B0288	M126
70	SN5472	2F	15M%	MON	2.0%	.80*	TTL	9	2	0	7	50nΔ			40m†	1.0	-55	125	1	B0288	TO84
71	TF7472E	2F	15M%	MON	2.0%	.80*	TTL	9	20	0	7	50nΔ			40m†	1.0	0	70	1	B0288	TO116
72	WC7472D	2F	15M%	MON	2.0%	.80*	TTL	9	20	0	7	50nΔ			40m†	1.0	0	75	1	B0288	M126b
73#	MMF60	2F	20M	MON	1.7%	1.2*	TTL	10	15	0.0	5.0	21n	5.0n	8.0n	55m	1.0	-55	125	1		
74#	MMF61	2F	20M	MON	1.7%	1.2*	TTL	10	7	0.0	5.0	21n	5.0n	8.0n	55m	1.0	-55	125	1		
75#	MMF62	2F	20M	MON	1.7%	1.2*	TTL	10	12	0.0	5.0	21n	5.0n	8.0n	55m	1.0	0	75	1		
76#	MMF63	2F	20M	MON	1.7%	1.2*	TTL	10	6	0.0	5.0	21n	5.0n	8.0n	55m	1.0	0	75	1		
77#	5472-1-6A	2F	20M%	MON	2.0%	.80*	TTL	9	10	0.0	5.0	40nΔ			50m†		-55	125	1	B02195a	M157
78#	7472-9-6A	2F	20M%	MON	2.0%	.80*	TTL	9	10	0.0	5.0	40nΔ			50m†		0	70	1	B02195a	M157
79	PD7470	2F	20MΔØ	MON	2.0%	.80*	TTL	9	20	0.0	5.0	50nΔ			70m	1.0	0	75	1	B022	M105v
80	TFF3231	2F	20M	MON	3.0	.30	TTL	4	7	0.0	7.0	15n			75m	1.0 Δ	15	55	1	B0242	CN13
81	6F60G	2F	20M	MON	3.3	.26	TTL	12	15†	0	5	25nΔ	5.0n	8.0n	60m	900m	-55	125	1	B0257	TO84
82	6F60K	2F	20M	MON	3.3	.26	TTL	12	15†	0	5	25nΔ	5.0n	8.0n	60m	900m	-55	125	1	B0257	TO116
83	6F61G	2F	20M	MON	3.3	.26	TTL	12	7†	0	5	25nΔ	5.0n	8.0n	60m	900m	-55	125	1	B0257	TO84
84	6F61K	2F	20M	MON	3.3	.26	TTL	12	7†	0	5	25nΔ	5.0n	8.0n	60m	900m	-55	125	1	B0257	TO116
85	6F62D	2F	20M	MON	3.3	.26	TTL	12	12†	0	5	25nΔ	5.0n	8.0n	60m	900m	0	75	1	B0257	TO116
86	6F62G	2F	20M	MON	3.3	.26	TTL	12	12†	0	5	25nΔ	5.0n	8.0n	60m	900m	0	75	1	B0257	TO84
87	6F63D	2F	20M	MON	3.3	.26	TTL	12	6†	0	5	25nΔ	5.0n	8.0n	60m	900m	0	75	1	B0257	TO116
88	6F63G	2F	20M	MON	3.3	.26	TTL	12	6†	0	5	25nΔ	5.0n	8.0n	60m	900m	0	75	1	B0257	TO84
89	SF60	2F	20M	MON	3.3	.26	TTL	12	15†	0	5	25nΔ	5.0n	8.0n	60m	900m	-55	125	1	B0257	ZB100
90	SF61	2F	20M	MON	3.3	.26	TTL	12	7†	0	5	25nΔ	5.0n	8.0n	60m	900m	-55	125	1	B0257	ZB100
91	SF62	2F	20M	MON	3.3	.26	TTL	12	12†	0	5	25nΔ	5.0n	8.0n	60m	900m	0	75	1	B0257	ZB100
92	SF63	2F	20M	MON	3.3	.26	TTL	12	6†	0	5	25nΔ	5.0n	8.0n	60m	900m	0	75	1	B0257	ZB100
93	SWF50	2F	20M%	MON	3.5	.26	TTL	10	15	0.0	6.0	21n	5.0n	8.0n	50m	1.0	-55	125	1	B0274	TO86
94	SWF51	2F	20M%	MON	3.5	.26	TTL	10	7	0.0	6.0	21n	5.0n	8.0n	50m	1.0	-55	125	1	B0274	TO86
95	SWF52	2F	20M%	MON	3.5	.26	TTL	10	12	0.0	6.0	21n	5.0n	8.0n	50m	1.0	0	75	1	B0274	TO86
96	SWF53	2F	20M%	MON	3.5	.26	TTL	10	6	0.0	6.0	21n	5.0n	8.0n	50m	1.0	0	75	1	B0274	TO86
97	SWF60	2F	20M	MON	3.5	.26	TTL	10	15	0.0	6.0	21n	5.0n	8.0n	50m	1.0	-55	125	1		TO86
98	SWF61	2F	20M	MON	3.5	.26	TTL	10	7	0.0	6.0	21n	5.0n	8.0n	50m	1.0	-55	125	1		TO86
99	SWF62	2F	20M	MON	3.5	.26	TTL	10	12	0.0	6.0	21n	5.0n	8.0n	50m	1.0	0	75	1		TO86
100	SWF63	2F	20M	MON	3.5	.26	TTL	10	6	0.0	6.0	21n	5.0n	8.0n	50m	1.0	0	75	1		TO86
101	FF4317B	2F	20M†	TFH	4.0Δ	1.5	RCT	1	4	0	8	2.0n%	20n	6.0n	100m	1.5	-55	125	1		M57
102	FF4327B	2F	20M†	TFH	4.0Δ	1.5	RCT	1	4	0	8	2.0n%	20n	6.0n	100m	1.5	-55	125	1		M57a
103	FF7317E	2F	20M	TFH	5.0	2.0	RCT	2	4	0	8	8.0n	15n	5.0n	96m	1.5	-55	125	1	B0236	
104	FF7327E	2F	20M	TFH	5.0	2.0	RCT	2	4	0	8	8.0n	15n	5.0n	96m	1.5	-55	125	1	B0236	
105#	MMF250	2F	30M	MON	1.7%	1.2*	TTL	10	11	0.0	5.0	20n	4.0n	6.0n	55m	1.0	-55	125	1		
106#	MMF251	2F	30M	MON	1.7%	1.2*	TTL	10	6	0.0	5.0	20n	4.0n	6.0n	55m	1.0	-55	125	1		
107#	MMF252	2F	30M	MON	1.7%	1.2*	TTL	10	9	0.0	5.0	20n	4.0n	6.0n	55m	1.0	0	75	1		
108#	MMF253	2F	30M	MON	1.7%	1.2*	TTL	10	5	0.0	5.0	20n	4.0n	6.0n	55m	1.0	0	75	1		
109#	MMF260	2F	30M	MON	1.7%	1.2*	TTL	10	11	0.0	5.0	20n	4.0n	6.0n	55m	1.0	-55	125	1		
110#	MMF261	2F	30M	MON	1.7%	1.2*	TTL	10	6	0.0	5.0	20n	4.0n	6.0n	55m	1.0	-55	125	1		

4. BINARY OR FLIP - FLOP

IN ORDER OF (1) FLIP-FLOP (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF FLIP-FLOP	2 MAX OPER-ATING FREQ. (Hz)	3 PRO-CESS	LOGIC LEVEL		LOGIC	FAN		POWER SUPPLY SPAN		PROPA-GATION DELAY (s)	MAX.		MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP.		CKT PER MOD	DRAWINGS	
					4 '1' (V)	5 '0' (V)	TYPE	IN	OUT MAX.	NEG (V)	POS (V)		RISE TIME tr (s)	FALL TIME tf (s)			LOW °C	HI °C		LOGIC DWG. No	OUTLINE DWG. No Δ=MO
1#	MMF262	2F	30M	MON	1.7%	1.2*	TTL	10	9	0.0	5.0	20n	4.0n	6.0n	55m	1.0	0	75	1		
2#	MMF263	2F	30M	MON	1.7%	1.2*	TTL	10	5	0.0	5.0	20n	4.0n	6.0n	55m	1.0	0	75	1		
3	NE825A	2F	30M	MON	3.1	.20†	TTL	9		0	5.5	50nΔ	150n	150n	70m	2.0	0	70	1	B0273	TO116
4	RD207	2F	30M	MON	3.3	.25†	DTL	6	12	0	5.5	18n%			95m	1.2	-55	125	1	B0294	TO84
5	RD307	2F	30M	MON	3.3	.25†	DTL	6	8	0	5.5	18n%			95m	1.2	-55	125	1	B0294	TO84
6	2F260G	2F	30M	MON	3.3	.26	TTL	12	11†	0	5	20nΔ	4.0n	6.0n	60m	900m	-55	125	1	B02109	TO84
7	2F260K	2F	30M	MON	3.3	.26	TTL	12	11†	0	5	20nΔ	4.0n	6.0n	60m	900m	-55	125	1	B02109	TO116
8	2F261G	2F	30M	MON	3.3	.26	TTL	12	6†	0	5	20nΔ	4.0n	6.0n	60m	900m	-55	125	1	B02109	TO84
9	2F261K	2F	30M	MON	3.3	.26	TTL	12	6†	0	5	20nΔ	4.0n	6.0n	60m	900m	-55	125	1	B02109	TO116
10	6F250G	2F	30M	MON	3.3	.26	TTL	12	11†	0	5	20nΔ	4.0n	6.0n	40m	900m	-55	125	1	B02107	TO84
11	6F250K	2F	30M	MON	3.3	.26	TTL	12	11†	0	5	20nΔ	4.0n	6.0n	40m	900m	-55	125	1	B02107	TO116
12	6F251G	2F	30M	MON	3.3	.26	TTL	12	6†	0	5	20nΔ	4.0n	6.0n	40m	900m	-55	125	1	b02107	TO84
13	6F251K	2F	30M	MON	3.3	.26	TTL	12	6†	0	5	20nΔ	4.0n	6.0n	40m	900m	-55	125	1	B02107	TO116
14	PD9623-61	2F	30M	MON	3.3	.26	TTL	10	11†	0	5	20nΔ	4.0n	6.0n	40m	900m	-55	125	1	B02107	TO116
15	PD9623-69	2F	30M	MON	3.3	.26	TTL	10	9†	0	5	20nΔ	4.0n	6.0n	40m	900m	0	75	1	B02107	TO116
16	PD9623-71	2F	30M	MON	3.3	.26	TTL	10	6†	0	5	20nΔ	4.0n	6.0n	40m	900m	-55	125	1	B02107	TO116
17	PD9623-79	2F	30M	MON	3.3	.26	TTL	10	5†	0	5	20nΔ	4.0n	6.0n	40m	900m	0	75	1	B02107	TO116
18	PD9626-61	2F	30M	MON	3.3	.26	TTL	10	11†	0	5	20nΔ	4.0n	6.0n	60m	900m	-55	125	1	B02109	TO116
19	PD9626-69	2F	30M	MON	3.3	.26	TTL	10	9†	0	5	20nΔ	4.0n	6.0n	50m	900m	0	75	1	B02109	TO116
20	PD9626-71	2F	30M	MON	3.3	.26	TTL	10	6†	0	5	20nΔ	4.0n	6.0n	60m	900m	-55	125	1	B02109	TO116
21	PD9626-79	2F	30M	MON	3.3	.26	TTL	10	5†	0	5	20nΔ	4.0n	6.0n	50m	900m	0	75	1	B02109	TO116
22	PL9623-61	2F	30M	MON	3.3	.26	TTL	12	11†	0	5	20nΔ	4.0n	6.0n	40m	900m	-55	125	1	B02107	TO86
23	PL9623-69	2F	30M	MON	3.3	.26	TTL	12	9†	0	5	20nΔ	4.0n	6.0n	40m	900m	0	75	1	B02107	TO86
24	PL9623-71	2F	30M	MON	3.3	.26	TTL	12	6†	0	5	20nΔ	4.0n	6.0n	40m	900m	-55	125	1	B02107	TO86
25	PL9623-79	2F	30M	MON	3.3	.26	TTL	12	5†	0	5	20nΔ	4.0n	6.0n	40m	900m	0	75	1	B02107	TO86
26	PL9626-61	2F	30M	MON	3.3	.26	TTL	12	11†	0	5	20nΔ	4.0n	6.0n	60m	900m	-55	125	1	B02109	TO86
27	PL9626-69	2F	30M	MON	3.3	.26	TTL	12	9†	0	5	20nΔ	4.0n	6.0n	50m	900m	0	75	1	B02109	TO86
28	PL9626-71	2F	30M	MON	3.3	.26	TTL	12	6†	0	5	20nΔ	4.0n	6.0n	60m	900m	-55	125	1	B02109	TO86
29	PL9626-79	2F	30M	MON	3.3	.26	TTL	12	5†	0	5	20nΔ	4.0n	6.0n	50m	900m	0	75	1	B02109	TO86
30	SF250#1	2F	30M	MON	3.3	.26	TTL	12	11†	0.0	5.0	20nΔ	4.0n	6.0n	40m	900m	-55	125	1	B02107	FP18
31	SF250#2	2F	30M	MON	3.3	.26	TTL	12	11†	0.0	5.0	20nΔ	4.0n	6.0n	40m	900m	-55	125	1	B02107	M75
32	SF251#1	2F	30M	MON	3.3	.26	TTL	12	6†	0.0	5.0	20nΔ	4.0n	6.0n	40m	900m	-55	125	1	B02107	FP18
33	SF251#2	2F	30M	MON	3.3	.26	TTL	12	6†	0.0	5.0	20nΔ	4.0n	6.0n	40m	900m	-55	125	1	B02107	M75
34	SF252#1	2F	30M	MON	3.3	.26	TTL	12	9†	0.0	5.0	20nΔ	4.0n	6.0n	40m	900m	0	75	1	B02107	FP18
35	SF252#2	2F	30M	MON	3.3	.26	TTL	12	9†	0.0	5.0	20nΔ	4.0n	6.0n	40m	900m	0	75	1	B02107	M75
36	SF253#1	2F	30M	MON	3.3	.26	TTL	12	5†	0.0	5.0	20nΔ	4.0n	6.0n	40m	900m	0	75	1	B02107	FP18
37	SF253#2	2F	30M	MON	3.3	.26	TTL	12	5†	0.0	5.0	20nΔ	4.0n	6.0n	40m	900m	0	75	1	B02107	M75
38	SF260#1	2F	30M	MON	3.3	.26	TTL	12	11†	0.0	5.0	20nΔ	4.0n	6.0n	60m	900m	-55	125	1	B02109	FP18
39	SF260#2	2F	30M	MON	3.3	.26	TTL	12	11†	0.0	5.0	20nΔ	4.0n	6.0n	60m	900m	-55	125	1	B02109	M75
40	SF261#1	2F	30M	MON	3.3	.26	TTL	12	6†	0.0	5.0	20nΔ	4.0n	6.0n	60m	900m	-55	125	1	B02109	FP18
41	SF261#2	2F	30M	MON	3.3	.26	TTL	12	6†	0.0	5.0	20nΔ	4.0n	6.0n	60m	900m	-55	125	1	B02109	M75
42	SF262#1	2F	30M	MON	3.3	.26	TTL	12	9†	0.0	5.0	20nΔ	4.0n	6.0n	50m	900m	0	75	1	B02109	FP18
43	SF262#2	2F	30M	MON	3.3	.26	TTL	12	9†	0.0	5.0	20nΔ	4.0n	6.0n	50m	900m	0	75	1	B02109	M75
44	SF263#1	2F	30M	MON	3.3	.26	TTL	12	5†	0.0	5.0	20nΔ	4.0n	6.0n	50m	900m	0	75	1	B02109	FP18
45	SF263#2	2F	30M	MON	3.3	.26	TTL	12	5†	0.0	5.0	20nΔ	4.0n	6.0n	50m	900m	0	75	1	B02109	M75
46#	5470-1-6A	2F	35M%Δ	MON	2.0%	.80*	TTL	9	10	0.0	5.0	50nΔ			70m†	1.0 Δ	-55	125	1	B022	M157
47#	7470-9-6A	2F	35M%Δ	MON	2.0%	.80*	TTL	9	10	0.0	5.0	50nΔ			70m†	1.0 Δ	0	70	1	B022	M157
48	SN5470	2F	35M%	MON	2.0%	.80*	TTL	9	20	0	7	50nΔ			70m	1.0	-55	125	1	B022	TO84
49	SN7470	2F	35M%	MON	2.0%	.80*	TTL	9	20	0	7	50nΔ			70m	1.0	0	70	1	B022	TO84
50	WC7470D	2F	35M%	MON	2.0%	.80*	TTL	9	20	0	7	50nΔ			70m	1.0	0	75	1	B022	M126b
51	2F262D	2F	40MΔ	MON	1.5	1.7	TTL	10	9	0	7	20nΔ	4.0n	6.0n	50m	900m	0	75	1	B02109	TO116
52	2F262G	2F	40MΔ	MON	1.5	1.7	TTL	10	9	0	7	20nΔ	4.0n	6.0n	50m	900m	0	75	1	B02109	TO84
53	2F263D	2F	40MΔ	MON	1.5	1.7	TTL	10	5†	0	7	20nΔ	4.0n	6.0n	50m	900m	0	75	1	B02109	TO116
54	2F263G	2F	40MΔ	MON	1.5	1.7	TTL	10	5†	0	7	20nΔ	4.0n	6.0n	50m	900m	0	75	1	B02109	TO84
55	6F252D	2F	40MΔ	MON	1.5	1.7	TTL	10	9	0	7	20nΔ	4.0n	6.0n	40m†	900m	0	75	1	B02107	TO116
56	6F252G	2F	40MΔ	MON	1.5	1.7	TTL	10	9	0	7	20nΔ	4.0n	6.0n	40m†	900m	0	75	1	B02107	TO84
57	6F253D	2F	40MΔ	MON	1.5	1.7	TTL	10	5†	0	7	20nΔ	4.0n	6.0n	40m†	900m	0	75	1	B02107	TO116
58	6F253G	2F	40MΔ	MON	1.5	1.7	TTL	10	5†	0	7	20nΔ	4.0n	6.0n	40m†	900m	0	75	1	B02107	TO84
59	NC472HN	2F	40M†Δ	MON	2.0%	.80*	TTL	9	20	0.0	7.0	18n%			80m†	1.0 Δ	0	70	1	B0295	M75a
60	SN54H71	2F	40M%Δ	MON	2.0%	.80*	TTL	10	20	0.0	7.0	18n%			95m†	1.0 Δ	-55	125	1	B0297	TO84
61	SN54H72	2F	40M%Δ	MON	2.0%	.80*	TTL	9	20	0.0	7.0	18n%			80m†	1.0 Δ	-55	125	1	B0295	TO84
62	SN74H71	2F	40M%Δ	MON	2.0%	.80*	TTL	10	20	0.0	7.0	18n%			95m†	1.0 Δ	0	70	1	B0297	TO84
63	SN74H72	2F	40M%Δ	MON	2.0%	.80*	TTL	9	20	0.0	7.0	18n%			80m†	1.0 Δ	0	70	1	B0295	TO84
64	6F200G	2F	50M	MON	3.3	.26	TTL	10	15†	0	5	11nΔ	1.0n†	1.7n†	50m	900m	-55	125	1	B02105	TO84
65	6F200K	2F	50M	MON	3.3	.26	TTL	10	15†	0	5	11nΔ	1.0n†	1.7n†	50m	900m	-55	125	1	B02105	TO116
66	6F201G	2F	50M	MON	3.3	.26	TTL	10	7†	0	5	11nΔ	1.0n†	1.7n†	50m	900m	-55	125	1	B02105	TO84
67	6F201K	2F	50M	MON	3.3	.26	TTL	10	7†	0	5	11nΔ	1.0n†	1.7n†	50m	900m	-55	125	1	B02105	TO116
68	6F202D	2F	50M	MON	3.3	.26	TTL	10	12†	0	5	11nΔ	1.0n†	1.7n†	60m	900m	0	75	1	B02105	TO116
69	6F202G	2F	50M	MON	3.3	.26	TTL	10	12†	0	5	11nΔ	1.0n†	1.7n†	60m	900m	0	75	1	B02105	TO84
70	6F203D	2F	50M	MON	3.3	.26	TTL	10	6†	0	5	11nΔ	1.0n†	1.7n†	60m	900m	0	75	1	B02105	TO116
71	6F203G	2F	50M	MON	3.3	.26	TTL	10	6†	0	5	11nΔ	1.0n†	1.7n†	60m	900m	0	75	1	B02105	TO84
72	6F210G	2F	50M	MON	3.3	.26	TTL	10	15†	0	5	11nΔ	1.0n†	1.7n†	60m	900m	-55	125	1	B02106	TO84
73	6F210K	2F	50M	MON	3.3	.26	TTL	10	15†	0	5	11nΔ	1.0n†	1.7n†	60m	900m	-55	125	1	B02106	TO116
74	6F211G	2F	50M	MON	3.3	.26	TTL	10	7†	0	5	11nΔ	1.0n†	1.7n†	60m	900m	-55	125	1	B02106	TO84
75	6F211K	2F	50M	MON	3.3	.26	TTL	10	7†	0	5	11nΔ	1.0n†	1.7n†	60m	900m	-55	125	1	B02106	TO116
76	6F212D	2F	50M	MON	3.3	.26	TTL	10	12†	0	5	11nΔ	1.0n†	1.7n†	50m	900m	0	75	1	B02106	TO116
77	6F212G	2F	50M	MON	3.3	.26	TTL	10	12†	0	5	11nΔ	1.0n†	1.7n†	50m	900m	0	75	1	B02106	TO84
78	6F213D	2F	50M	MON	3.3	.26	TTL	10	6†	0	5	11nΔ	1.0n†	1.7n†	50m	900m	0	75	1	B02106	TO116
79	6F213G	2F	50M	MON	3.3	.26	TTL	10	6†	0	5	11nΔ	1.0n†	1.7n†	50m	900m	0	75	1	B02106	TO84
80	PD9624-61	2F	50M	MON	3.3	.26	TTL	10	15†	0	5	11nΔ	1.0n†	1.7n†	50m	900m	-55	125	1	B02105	TO116
81	PD9624-69	2F	50M	MON	3.3	.26	TTL	10	12†	0	5	11nΔ	1.0n†	1.7n†	60m	900m	0	75	1	B02105	TO116
82	PD9624-71	2F	50M	MON	3.3	.26	TTL	10	7†	0.0	5.0	11nΔ	1.0n†	1.7n†	50m	900m	-55	125	1	B02105	TO116
83	PD9624-79	2F	50M	MON	3.3	.26	TTL	10	6†	0	5	11nΔ	1.0n†	1.7n†	60m	900m	0	75	1	B02105	TO116
84	PD9627-61	2F	50M	MON	3.3	.26	TTL	10	15†	0	5	11nΔ	1.0n†	1.7n†	60m	900m	-55	125	1	B02106	TO116
85	PD9627-69	2F	50M	MON	3.3	.26	TTL	10	12†	0	5	11nΔ	1.0n†	1.7n†	50m	900m	0	75	1	B02106	TO116
86	PD9627-71	2F	50M	MON	3.3	.26	TTL	10	7†	0	5	11nΔ	1.0n†	1.7n†	60m	900m	-55	125	1	B02106	TO116
87	PD9627-79	2F	50M	MON	3.3	.26	TTL	10	6†	0	5	11nΔ	1.0n†	1.7n†	50m	900m	0	75	1	B02106	TO116
88	PL9624-61	2F	50M	MON	3.3	.26	TTL	10	15†	0	5	11nΔ	1.0n†	1.7n†	50m	900m	-55	125	1	B02105	TO86
89	PL9624-69	2F	50M	MON	3.3	.26	TTL	10	12†	0	5	11nΔ	1.0n†	1.7n†	60m	900m	0	75	1	B02105	TO86
90	PL9624-71	2F	50M	MON	3.3	.26	TTL	10	7†	0	5	11nΔ	1.0n†	1.7n†	50m	900m	-55	125	1	B02105	TO86
91	PL9624-79	2F	50M	MON	3.3	.26	TTL	10	6†	0	5	11nΔ	1.0n†	1.7n†	60m	900m	0	75	1	B02105	TO86
92	PL9627-61	2F	50M	MON	3.3	.26	TTL	10	15†	0	5	11nΔ	1.0n†	1.7n†	60m	900m	-55	125	1	B02106	TO86
93	PL9627-69	2F	50M	MON	3.3	.26	TTL	10	12†	0	5	11nΔ	1.0n†	1.7n†	50m	900m	0	75	1	B02106	TO86
94	PL9627-71	2F	50M	MON	3.3	.26	TTL	10	7†	0	5	11nΔ	1.0n†	1.7n†	60m	900m	-55	125	1	B02106	TO86
95	PL9627-79	2F	50M	MON	3.3	.26	TTL	10	6†	0	5	11nΔ	1.0n†	1.7n†	50m	900m	0	75	1	B02106	TO86
96	SF200	2F	50M	MON	3.3	.26	TTL	10	15†	0	5	11nΔ	1.0n†	1.7n†	50m	900m	-55	125	1	B02105	ZB100
97	SF201	2F	50M	MON	3.3	.26	TTL	10	7†	0	5	11nΔ	1.0n†	1.7n†	50m	900m	-55	125	1	B02105	ZB100
98	SF202	2F	50M	MON	3.3	.26	TTL	10	12†	0	5	11nΔ	1.0n†	1.7n†	60m	900m	0	75	1	B02105	ZB100
99	SF203	2F	50M	MON	3.3	.26	TTL	10	6†	0	5	11nΔ	1.0n†	1.7n†	60m	900m	0	75	1	B02105	ZB100
100	SF210	2F	50M	MON	3.3	.26	TTL	10	15†	0	5	11nΔ	1.0n†	1.7n†	60m	900m	-55	125	1	B02106	ZB100
101	SF211	2F	50M	MON	3.3	.26	TTL	10	7†	0	5	11nΔ	1.0n†	1.7n†	60m	900m	-55	125	1	B02106	ZB100
102	SF212	2F	50M	MON	3.3	.26	TTL	10	12†	0	5	11nΔ	1.0n†	1.7n†	50m	900m	0	75	1	B02106	ZB100
103	SF213	2F	50M	MON	3.3	.26	TTL	10	6†	0	5	11nΔ	1.0n†	1.7n†	50m	900m	0	75	1	B02106	ZB100
104	GFF4-20	2F,G	20M	PCB	-6.0	0.0	DTL	5	12	12	6.0	24nΔ	2.0n	12n	2.0	2.0	0	55	2	B0241	CB15
105	UF23	2FR	100k	PCB	0.0	8.0	RCT	14	10	12	6.0	300n%	1.0u	4.0u	370m	1.5	-20	55	2		CB10
106	UF21	2FR	100k	PCB	0.0	-10	RCT	14	10	12	6.0	300n%	1.0u	4.0u	370m	1.5	-20	55	2	B0251	CB10
107	SUF21	2FR	300k	PCB	0.0	8.0	RCT	14	10	12	12	180n%	500n	1.0u	310m	1.5	-40	75	2	B0251	CB10
108	SUF23	2FR	300k	PCB	0.0	8.0	RCT	14	10	12	12	180n%	500n	1.0u	310m	1.5	-40	75	2		CB10
109	UF1	2FR	300k	PCB	0.0	-10	RCT	14	10	12	6.0	180n%	500n	1.0u	320m	1.5	-20	55	2	B0251	CB10
110	UF3	2FR	300k	PCB	0.0	-10	RCT	14	10	12	6.0	180n%	500n	1.0u	320m	1.5	-20	55	2		CB10

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

4. BINARY OR FLIP - FLOP

IN ORDER OF (1) FLIP-FLOP (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF FLIP-FLOP	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	SUF1	2FR	1.5M	PCB	0.0	8.0	RCT	14	10	12	12	120n%	150n	250n	500m	1.5	-40	75	2	B0251	CB10
2	SUF3	2FR	1.5M	PCB	0.0	8.0	RCT	14	10	12	12	120n%	150n	250n	500m	1.5	-40	75	2		CB10
3	UF1A	2FR	2.0M	PCB	0.0	-10	RCT	14	7	12	6.0	100n%	100n	250n	630m	1.5	-20	55	2	B0251	CB10
4	UF3A	2FR	2.0M	PCB	0.0	-10	RCT	14	7	12	6.0	100n%	100n	250n	630m	1.5	-20	55	2		CB10
5	UF2	2FR	5.0M	PCB	0.0	-10	RCT	14	7	12	6.0	50n%	50n	150n	630m	1.5	-20	55	2	B0251	CB10
6	UF4	2FR	5.0M	PCB	0.0	-10	RCT	14	7	12	6.0	50n%	50n	150n	630m	1.5	-20	55	2		CB10
7	NE125A	2G		MON	2.8%	.45*†	DTL	10	8	0	6.2	55nΔ			88m†		0	70	1	B0272a	TO116
8	NE125J	2G		MON	2.8%	.45*†	DTL	10	8	0	6.2	55nΔ			88m†		0	70	1	B0272	TO88
9	SE125J	2G	12M	MON	5.0	0.0	DTL	10	8	0.0	8.0				250m		-55	125	1	B0272	TO88
10	68B4	3					DTL	2	4			30n			24m				1	B0358	CN35
11	68B4P	3					DTL	2	4			30n			24m				1	B0358	FP12
12	SFC104	3			3.9	.50	DTL	4		0.0	8.0	35n			35m	750m	0	75	1	B03105	CN39
13#	9902-9-5D	3		MON			RTL	2	26	0.0	3.6	10n%			40m†		0	70	1	B0360	TO99
14	FuL93129	3		MON			DTL	5	7			50n			20m	600m	0	70	1	B0381	
15	FuL94529	3		MON			DTL	5	9			50n			42m	600m	0	70	1	B0395	
16	FuL94829	3		MON			DTL	5	8			40n			48m	600m	0	70	1	B0395a	
17	FuL95029#1	3		MON			DTL	4	10			20n			50m	600m	0	70	1	B0397	CN38
18	FuL95029#2	3		MON			DTL	4	10			20n			50m	600m	0	70	1	B0397	FP32
19	SI948D	3		MON			DTL	7	10	0.0	5.0	40n			52m	600m	0	75	1	B0395a	FP30
20	WM222G	3		MON			DTL	8Δ	10	0.0	6.0				22m	550m*	-55	125	1	B0325a	TO84
21	ECL2541	3		MON	.15%	-.15*	ECL	5	35	3.2	1.32	2.5n	7.8	7.8		225mΔ	0	70	2	B03148	M117m
22	ECL2542	3		MON	.15%	-.15*	ECL	7	35	3.2	1.32	2.5n	6.9	6.9		225mΔ	0	70	2	B03149	M117m
23	116AE	3		MON	.80	.25	TTL	2	10	0	3	18n			26m	300m	-55	125	1	B0317	
24	116AH	3		MON	.80	.25	TTL	2	10	0	3	18n			26m	300m	-55	125	1	B0317	
25	116BE	3		MON	.80	.25	TTL	2	5	0	3	18n			26m	265m	-55	125	1	B0317	
26	116BH	3		MON	.80	.25	TTL	2	10	0	3	18n			26m	265m	-55	125	1	B0317	
27	116CE	3		MON	.80	.25	TTL	2	5	0	3	18n			26m	250m	0	70	1	B0317	CN10
28	F11001	3		MON	.80	.25	TTL	2	10	0.0	3.0	18n			26m	300m	-55	125	1	B0317	CN10
29	F11004	3		MON	.80	.25	TTL	2	5	0.0	3.0	18n			26m	250m	0	70	1	B0317	CN10
30	F11008	3		MON	.80	.25	TTL	2	5	0.0	3.0	18n			26m	265m	-55	125	1	B0317	CN10
31	F41001	3		MON	.80	.25	TTL	2	10	0.0	3.0	18n			26m	300m	-55	125	1	B0317	FP26
32	F41008	3		MON	.80	.25	TTL	2	5	0.0	3.0	18n			26m	265m	-55	125	1	B0317	FP26c
33	PL902#1	3		MON	1.0	.15	RTL	2	8	0.0	3.0	14n			28m		-55	125	1	B0322	CN13
34	PL902#2	3		MON	1.0	.15	RTL	2	8	0.0	3.0	14n			28m		-55	125	1	B0322	FP2
35	PL9902	3		MON	1.0	.15	RTL	2	8	0.0	3.0	14n			28m		-55	125	1	B0322	
36	uL902#1	3		MON	1.1	.25	RTL	2	8	0.0	12	12n					-55	125	1	B0360	TO70
37	uL902#2	3		MON	1.1	.25	RTL	2	8	0.0	12	12n					0	100	1	B0360	CN34
38	DTuL945#1	3		MON	1.9	1.0	DTL	7		0.0	5.0	75n			8.5m	1.0	0	75	1	B0395	FP28
39	DTuL945#2	3		MON	1.9	1.0	DTL	7		0.0	5.0	75n			8.5m	1.0	0	75	1	B0395	M54
40	DTuL948#1	3		MON	1.9	1.0	DTL	7		0.0	5.0	65n			8.5m	1.0	0	75	1	B0395a	FP28
41	DTuL948#2	3		MON	1.9	1.0	DTL	7		0.0	5.0	65n			8.5m	1.0	0	75	1	B0395a	M54
42	RC202D	3		MON	2.0%	1.0*	DTL	6	10	0	6.0	48n			11m†	550m	0	75	1	B0324	M105k
43	RC202G	3		MON	2.0%	1.0*	DTL	6	10	0	6.0	48n			11m†	550m	0	75	1	B0324	TO84
44	RC202P	3		MON	2.0%	1.0*	DTL	6	10	0	6.0	48n			11m†	550m	0	75	1	B0324	M105m
45	RC202T	3		MON	2.0%	1.0*	DTL	6	10	0	6.0	48n			11m†	550m	0	75	1	B0319	TO101
46	RC212D	3		MON	2.0%	1.0*	DTL	8Δ	10	0	6.0	48n			11m†	550m	0	75	1	B0321b	M105k
47	RC212G	3		MON	2.0%	1.0*	DTL	8Δ	10	0	6.0	48n			11m†	550m	0	75	1	B0321b	TO84
48	RC212P	3		MON	2.0%	1.0*	DTL	8Δ	10	0	6.0	48n			11m†	550m	0	75	1	B0321b	M105m
49	RC212T	3		MON	2.0%	1.0*	DTL	8Δ	10	0	6.0	48n			11m†	550m	0	75	1	B0321a	TO101
50	RC222D	3		MON	2.0%	1.0*	DTL	8Δ	10	0	6.0	48n			20m†	550m	0	75	1	B0325a	M105k
51	RC222G	3		MON	2.0%	1.0*	DTL	8Δ	10	0	6.0	48n			20m†	550m	0	75	1	B0325a	TO84
52	RC222P	3		MON	2.0%	1.0*	DTL	8Δ	10	0	6.0	48n			20m†	550m	0	75	1	B0325a	M105m
53	RC222T	3		MON	2.0%	1.0*	DTL	8Δ	10	0	6.0	48n			20m†	550m	0	75	1	B0325a	TO101
54	RC950D	3		MON	2.0%	1.0*	DTL	6	8	0.0	5.0	30n			23m†	500m	-55	125	1		M105m
55	RC950J	3		MON	2.0%	1.0*	DTL	6	8	0.0	5.0	30n			23m†	500m	-55	125	1		FP28
56	RC950P	3		MON	2.0%	1.0*	DTL	6	8	0.0	5.0	30n			23m†	500m	-55	125	1		M105
57	RC950Q	3		MON	2.0%	1.0*	DTL	6	8	0.0	5.0	30n			23m†	500m	-55	125	1		FP26b
58	RC950T	3		MON	2.0%	1.0*	DTL	6	8	0.0	5.0	30n			23m†	500m	-55	125	1		TO101
59	RM202P	3		MON	2.0%	1.0*	DTL	6	10	0	6.0	48n			11m†	550m	-55	125	1	B0324	M105m
60	RM212P	3		MON	2.0%	1.0*	DTL	8Δ	10	0	6.0	48n			11m†	550m	-55	125	1	B0321b	M105m
61	RM222P	3		MON	2.0%	1.0*	DTL	8Δ	10	0	6.0	48n			20m†	550m	-55	125	1	B0325a	M105m
62	RM950P	3		MON	2.0%	1.0*	DTL	6	8	0	5.0	30n			23m†	500m	-55	125	1		M105
63	DTL395051	3		MON	2.6%	.40*†	DTL	6	20	0.0	8.0	30n			27m	500m	-55	125	1	B0397a	FP28
64	DTL695051	3		MON	2.6%	.40*†	DTL	6	20	0.0	8.0	30n			27m	500m	-55	125	1	B0397a	M54
65	PD9931-51	3		MON	2.6	.40	DTL	7	10	0.0	5.0	75n			32m	1.0	-55	125	1	B0381	TO116
66	PD9950-51	3		MON	2.6%	.40*†	DTL	6	8	0.0	8.0	35nΔ			160m	1.0	-55	125	1	B0397a	TO116
67	PL9931-51	3		MON	2.6	.40	DTL	7	10	0	5	75n			32m	1.0	-55	125	1	B0381	TO86
68	PL9950-51	3		MON	2.6%	.40*†	DTL	6	8	0.0	8.0	35nΔ			150m	1.0	-55	125	1	B0397a	TO86
69	PD9931-59	3		MON	2.6	.45	DTL	7	10	0.0	5.0	75n			32m	1.0	0	75	1	B0381	TO116
70	PE9931-59	3		MON	2.6	.45	DTL	7	10	0.0	5.0	75n			32m	1.0	0	75	1	B0381	M131
71	PL9931-59	3		MON	2.6	.45	DTL	7	10	0	5	75n			32m	1.0	0	75	1	B0381	TO86
72#	9950-9-6A	3		MON	2.8%	.45†*	DTL	6		0.0	5.0	35nΔ			46m		0	75	1	B0397c	M157
73	DTL395059	3		MON	2.8%	.45*†	DTL	6	20	0.0	8.0	30n			27m	500m	0	75	1	B0397a	FP28
74	DTL695059	3		MON	2.8%	.45*†	DTL	6	20	0.0	8.0	30n			27m	500m	0	75	1	B0397a	M54
75	PD9950-59	3		MON	2.8%	.45*†	DTL	6	8	0.0	8.0	35nΔ			160m	1.0	0	75	1	B0397a	TO116
76	PE9950-59	3		MON	2.8	.45	DTL	6	8	0.0	5.0	30n			48m	1.0	0	75	1	B0397a	M131
77	PL9950-59	3		MON	2.8%	.45*†	DTL	6	8	0.0	8.0	35nΔ			160m	1.0	0	75	1	B0397a	TO86
78	PM9950-59	3		MON	2.8%	.45*†	DTL	6	8	0.0	8.0	35nΔ			160m	1.0	0	75	1	B0397a	TO116
79	RDD945R	3		MON	3.1%	.40*	DTL	7	15	0.0	8	85nΔ			70m	350m*	-55	125	1	B0395	TO86
80	PE9945-59	3		MON	3.1	.45	DTL	7	10	0.0	5.0	75n			32m	1.0	0	75	1	B0395	M131
81	PE9948-59	3		MON	4.0	.45	DTL	7	9	0.0	5.0	65n			48m	1.0	0	75	1	B0395	M131
82	SN337A	3		MON	6.0	.10	DTL	4	12	3	6	250n			100m	500m	65	150	1	B0316	ZB6
83	MC652F	3		MON	9.7%	.73*	VTL	8Δ	4	10	10	75n			200m	5.0	0	75	1	B0384	CN42
84	MC652G	3		MON	9.7%	.73*	VTL	8Δ	4	10	10	75n			200m	5.0	0	75	1	B0384	CN42
85#	27684-02-2-803	3		PCB						12	12	5.8u	1.0u	1.5u					3	B0374a	
86#	27684-03-2-803	3		PCB						12	12	5.8u	1.0u	1.5u					6	B0374b	
87	U813	3		3DM	0.0	6.0	DTL		3	12	12	20n	20n	469n			-55	125	1	B0334	M17
88	B659	3	1.0k	PCB	-6.0	0.0	DTL	4	4	12	6.0				150m	2.0	-15	60	1	B0347	CB22
89	GSS1	3	2.0k	PCB	-10	0.0	DTL	1		12	0.0			4.0u	120m	2.0	0	55	4	B0328	CB15
90	DC01CSFF1	3	20k	PCB	6.0	0.0		3	4	12	12	500n	1.0u	1.0u		1.0	-55	100	4	B0331	
91	DC01CSXFF1	3	20k	PCB	6.0	0.0		3	4	12	12	500n	1.0u	1.0u		1.0	-55	100	4	B0331	
92	DC01CFF1	3	20k	PCB	-6.0	0.0		3	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	4	B0331	
93	DC01CXFF1	3	20k	PCB	-6.0	0.0		3	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	4	B0331	
94	DC01MSFF1	3	20k	PCM	6.0	0.0		3	4	12	12	500n	1.0u	1.0u		1.0	-55	100	1	B038b	
95	DC01MSFF3	3	20k	PCM	6.0	0.0		7	4	12	12	500n	1.0u	1.0u		1.0	-55	100	1	B037	
96	DC01MSFF4	3	20k	PCM	6.0	0.0		7	4	12	12	500n	1.0u	1.0u		1.0	-55	100	1	B038	
97	DC01MFF1	3	20k	PCM	-6.0	0.0		3	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	1	B038b	
98	DC01MFF4	3	20k	PCM	-6.0	0.0		7	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	1	B038	
99	Q416	3	25k	3DM	0.0	-6.0	RCT		4	12	12	800n	1.0u	10u	50m		-20	65	1	B0386a	M59
100	Q417	3	25k	3DM	0.0	-6.0	RCT		4	12	12	800n	1.0u	10u	64m		-20	65	1	B0386	M59
101	Q424	3	25k	3DM	0.0	-6.0	RCT		4	12	12	400n	500n	1.0u	238m		-20	65	1	B0386	M59
102#	27684-01-2-803	3	40k	PCB	-12	0.0				12	12	5.8u	1.0u	1.5u	500m	4.0	0	50	3	B0374	
103	4XBL	3	50k	PCB	-10	0.0	RCT			12	12				500m		0	50	4	B0340	CB19
104	DC1CFF1	3	100k	PCB	-6.0	0.0		3	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	4	B0331	
105	FF641	3	100k	PCB	-6.0	0.0	RCT	3	6	12	12	1.0u	1.0u	2.0u	400m	1.5 Δ	-45	65	4	B0313	CB1
106	FF645	3	100k	PCB	-6.0	0.0	RCT	6	6	12	12	1.0u	1.0u	2.0u	700m	1.5 Δ	-45	65	4	B031	CB1
107	DC1MFF1	3	100k	PCM	-6.0	0.0		3	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	1	B038b	

4. BINARY OR FLIP - FLOP

IN ORDER OF (1) FLIP-FLOP (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF FLIP-FLOP	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	DC1MFF3	3	100k	PCM	-6.0	0.0		7	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	1	B037	
2	DC1MFF4	3	100k	PCM	-6.0	0.0		7	6	18	18	1.0u	1.5u	3.0n		1.2	-55	55	1	B038	
3	FF11-1	3	100k	3DM	-10	0.0	DTL	6	3	12	12	100n	150n	300n	130m	2.0	-35	65	1	B0336a	M15
4	GFF2-.2	3	200k	PCB	-10	0.0	RCT	4	10	12	6.0	200n	1.0u	500n	700m	2.0	0	55	4	B0389	CB15
5	SC1171	3	250k	MOS	-10	0.0	MOS			10	0.0						0	70	1	B0361	CN40
6	CT162-4	3	250k	PCB	-3.0	-11	DTL	4		12	0	400n	1.0u	2.0u	240m	1.5	-45	65	4		CB16
7	T162	3	250k	3DM	-3.0	-11	DTL	4		12	0	400n	1.0u	2.0u	60m	1.5	-45	65	1	B0333	M17
8	T646	3	250k	3DM	-3.0	-11	DTL	4		12	12	400n	1.0u		325m	1.5	-45	65	1	B0333	M17
9	T648	3	250k	3DM	-3.0	-11	DTL	4		12	0	400n	1.0u	1.5u	450m	1.5	-45	65	1	B0333	M17
10	T103Δ	3	300k	PCB	0.0	-3.0	DTL	5	2	12	0.0	1.0u	1.0u	2.0u	48m		-45	65	1	B03129	M16
11	406	3	300k	PCB	-6.8	0.0	DTL	3	2	12	12		200n	500n	800m		0	55	1		CB24
12	LP01A	3	500k%Δ	MOS	-9.0%	-3.5*	DDL	3		30	30				15m		-55	125	1	B03135	TO77
13	LP04A	3	500k%Δ	MOS	-9.0%	-3.5*	DDL	3		30	30				15m		-55	125	1	B03135	TO77
14	FF741	3	500k	PCB	-6.0	0.0	RCT	3	6	12	12	500n	350n	350n	750m	1.5 Δ	-45	65	4	B0313	CB1
15	FF745	3	500k	PCB	-6.0	0.0	RCT	6	6	12	12	500n	350n	350n	1.1	1.5 Δ	-45	65	4	B031	CB1
16	MEM530	3	1.0M	MON	9.0	0.0		5		28			100n	100n	50n	3.0	-55	125	1	B0378	CN43
17	4224	3	1.0M	PCB	0.0	-3.0	RCT	2	9	15	10		50n	110n	2.5	500m	-20	55	9	B0369	CB30
18	MS02	3	1.0M	PCB	6.2	0.0	DTL	2	2	18	18	80n	100n	100n	1.3	2.5 *	-30	100	4		CB25
19	MS03	3	1.0M	PCB	6.2	0.0	DTL	2	2	18	18	100n	100n	100n	1.8	2.5 *	-30	100	4		CB25
20	MS07	3	1.0M	PCB	6.2	0.0	DTL	2	2	18	18	80n	100n	100n	1.7	2.5 *	-30	100	4		CB25
21	4227	3	1.0M	PCB	-3.0	0.0	RCT	3	9	15	10	30n	40n	40n	2.4	500m	-20	55	8	B0368	CB30
22	G211	3	1.0M	PCB	-6.0	0.0	RCT	10	10	12	6	250n	100n	300n	560m	2.0	-55	71	2	B02163a	CB16
23	GA211	3	1.0M	PCB	-6.0	0.0	RCT	10	10	12	6.0	250n	100n	300n	560m	2.0	-55	71	2		CB16
24	TF202	3	1.0M	PCB	10	.40		6Δ	9	6.0	12	30n	200n	80n	1.4	5.0	-55	100	4	B0330	CB15
25	GFF2-1	3	1.0M	PCB	-10	0.0	RCT	4	10	12	6.0	100n	250n	200n	780m	2.0	0	55	4	B0389	CB15
26	DC01MSFF1M	3	1.0M	PCM	6.0	0.0		3	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	1	B038b	
27	DC01MFF1M	3	1.0M	PCM	-6.0	0.0		3	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	1	B038b	
28	Q434	3	1.0M	3DM	0.0	-6.0	RCT		4	12	12	200n	100n	300n	285m		-20	65	1		M59
29	MM10873	3	1.0M	3DM	6.0	0.0				6	18								1		MP38
30	PM10743	3	1.0M	3DM	-6.5	0.0				18	6								1		ZB37
31	LCE201	3	2.0M		-6.0	0.0†				12	12	20n					-10	55	1		CN27
32	FA320	3	2.0M	MOH	6.3	0.0	DTL	7†	8	0.0	6.0	120nΔ			520m		0	55	4		CB13
33	FF320	3	2.0M	MOH	6.3	0.0	DTL	2	16	0.0	6.0	150nΔ			462m		0	55	8	B03144	CB13
34	DTuL950#1	3	2.0M	MON			DTL	6		0.0	8.0				30m		-55	125	1	B0397	CN38
35	DTuL950#2	3	2.0M	MON			DTL	6		0.0	8.0				30m		0	70	1	B0397	FP32
36	R284	3	2.0M	PCB	0.0	-3.0	DTL	2	13	15	10				545m	800m	-20	65	4	B0372	CB31
37	FU5108	3	2.0M†	PCB	2.6%	.70*	DTL	6	7	0	5	125n%				1.0 Δ	0	70	4		CB56
38	DC2CSFF1	3	2.0M	PCB	6.0	0.0		3	6	18	18	50n	150n	250n		1.2	-55	100	4	B0331	
39	DC2CFF1	3	2.0M	PCB	-6.0	0.0		3	6	18	18	50n	150n	250n		1.2	-55	55	4	B0331	
40	FF841	3	2.0M	PCB	-6.0	0.0	RCT	3	5	12	12	75n	90n	110n	800m	1.5 Δ	-45	65	4	B0313	CB1
41	FF845	3	2.0M	PCB	-6.0	0.0	RCT	6	5	12	12	75n	90n	110n	1.3	1.5 Δ	-45	65	4	B031	CB1
42	DC2MSFF1	3	2.0M	PCM	6.0	0.0		3	6	18	18	50n	150n	250n		1.2	-55	100	1	B038b	
43	DC2MSFF3	3	2.0M	PCM	6.0	0.0		7	6	18	18	50n	150n	250n		1.2	-55	100	1	B037	
44	DC2MSFF4	3	2.0M	PCM	6.0	0.0		7	6	18	18	50n	150n	250n		1.2	-55	100	1	B038	
45	DC2MFF1	3	2.0M	PCM	-6.0	0.0		3	6	18	18	50n	150n	250n		1.2	-55	55	1	B038b	
46	DC2MFF3	3	2.0M	PCM	-6.0	0.0		7	6	18	18	50n	150n	250n		1.2	-55	55	1	B037	
47	DC2MFF4	3	2.0M	PCM	-6.0	0.0		7	6	18	18	50n	150n	250n		1.2	-55	55	1	B038	
48	FF21-1	3	2.0M	3DM	10	0.0	DTL	6	3	12	12	20n	50n	30n	75m	2.0	-35	125	1	B0336b	M16
49	563BE	3	4.0M	MON			TTL	6	10	0	4	60n			1.0m		-55	125	1		
50	563BH	3	4.0M	MON			TTL	6	10	0	4	60n			1.0m		-55	125	1		
51	R16701	3	4.0M	MON			TTL	6	10	0.0	4.0	60n			1.0m		-55	125	1		TO100
52	R46701	3	4.0M	MON			TTL	6	10	0.0	4.0	60n			1.0m		-55	125	1		FP26a
53	FF335	3	5.0M	MOH	6.3*	1.1*	DTL	2	2	0	6.3				800m	1.3	0	55	8	B038k	CB13
54	UF335	3	5.0M	MOH	6.3*	1.1*	DTL	6	2	0	6.3				300m	1.3	0	55	3	B0315	CB13
55#	9945-1	3	5.0M	MON	2.6%	.4*Δ	DTL	7	10	0	5				50m	1.0	-55	125	1	B0395	ZB163
56#	D945-1R	3	5.0M	MON	2.6%	.40*Δ	DTL	7	10	0.0	5.0				50m	1.0	-55	125	1	B0395	TO116
57#	D945-1U	3	5.0M	MON	2.6%	.40*Δ	DTL	7	10	0.0	5.0				50m	1.0	-55	125	1	B0395	FP32
58#	9945-9	3	5.0M	MON	2.6%	.45*Δ	DTL	7	12	0	5				50m	1.0	0	75	1	B0395	ZB163
59#	D945-9R	3	5.0M	MON	2.6%	.45*Δ	DTL	7	12	0.0	5.0				50m	1.0	0	75	1	B0395	TO116
60#	D945-9U	3	5.0M	MON	2.6%	.45*Δ	DTL	7	12	0.0	5.0				50m	1.0	0	75	1	B0395	FP32
61	SI945D	3	5.0M	MON	4.5	.30	DTL	7	10	0.0	5.0	55n			40m	700m	0	75	2	B0395	FP30
62	CT655A3	3	5.0M	PCB			DTL	6	6	0.0		90n			210m	350m	0	75			
63	815	3	5.0MΔ	PCB	2.0%	.45*	DTL	2	7	0.0	5.0				320m	1.4	0	70	8	B03110	CB50
64	IRS0216	3	5.0M	PCB	2.0%	1.1*	DTL	2	7	0	5	95nΔ			160m	500m	0	75	8	B03118	CB51
65	IRS0222	3	5.0M	PCB	2.0%	1.1*	DTL	2	8	0	5	95nΔ			275m	500m	0	75	8	B03119	CB51
66	IRS2216	3	5.0M	PCB	2.0%	1.1*	DTL	2	7	0	5	95nΔ			160m	500m	0	75	8	B03118	CB51
67	IRS2222	3	5.0M	PCB	2.0%	1.1*	DTL	2	7	0	5	95nΔ			275m	500m	0	75	8	B03119	CB51
68	CT654-3	3	5.0M	PCB	2.5	0.0	DTL	10	5	6.0		90n			210m	350m	0	75			
69	RS5103	3	5.0M	PCB	2.6%	.70*	DTL	2	7	0	5	110nΔ				1.0 Δ	0	70	10		CB56
70	SR31	3	5.0M	PCB	3.0	0.0	DTL	2	30	0	4	65n	210n	100n	480m	300m	0	70	10		CB10a
71	FT58	3	5.0M	PCB	4.0	0.0	DTL	12	130	0	8	200n	5.0n	5.0n	2.5	1.5	5	71	2		CB37a
72	GFF2-5	3	5.0M	PCB	-10	0.0	RCT	4	10	12	6.0	60n	50n	50n	900m	1.5	0	55	4	B0389	CB15
73#	9948-1	3	8.0M	MON	2.6%	.4*Δ	DTL	7	9	0	5				50m	1.0	-55	125	1	B0395a	ZB163
74#	D948-1R	3	8.0M	MON	2.6%	.40*Δ	DTL	7	9	0.0	5.0				50m	1.0	-55	125	1	B0395a	TO116
75#	D948-1U	3	8.0M	MON	2.6%	.40*Δ	DTL	7	9	0.0	5.0				50m	1.0	-55	125	1	B0395a	FP32
76#	9948-9	3	8.0M	MON	2.6%	.45*Δ	DTL	7	11	0	5				50m	1.0	0	75	1	B0395a	ZB163
77#	D948-9R	3	8.0M	MON	2.6%	.45*Δ	DTL	7	11	0.0	5.0				50m	1.0	0	75	1	B0395a	TO116
78#	D948-9U	3	8.0M	MON	2.6%	.45*Δ	DTL	7	11	0.0	5.0				50m	1.0	0	75	1	B0395a	FP32
79	WC212G,T	3	10M	MON			DTL	3	10	0.0	6.0	38n			15m	550m*	0	75	1	B0325	ZB72
80	WM202T,G,Q	3	10M	MON			DTL	3	10	0.0	6.0	38n			15m	550m*	-55	125	1	B0324	ZB71
81	WM212Q	3	10M	MON			DTL	3	10	0.0	6.0	38n			15m	550m*	-55	125	1	B0325	TO91
82	WM212T,G	3	10M	MON			DTL	8Δ	10	0.0	6.0	38n			15m	550m*	-55	125	1	B0325	ZB83
83	2NB1018	3	10M	MON	.81	.21	RTL	4	12	0.0	4.0	40n	40n	40n	43m	355m	-55	125	1	B0332	CN19
84	2NB1002	3	10M	MON	.81	.25	RTL	2	13	0.0	4.0	14n	14n	14n	22m	355m	-55	125	1	B0360	CN19
85	2NB2002	3	10M	MON	.84	.25	RTL	2	13	0.0	4.0	14n	14n	14n	22m	293m	0	100	1	B0360	CN19
86	2NB2018	3	10M	MON	.84	.25	RTL	4	12	0.0	4.0	40n	40n	40n	43m	293m	0	100	1	B0332	CN19
87	2NB4002	3	10M	MON	.84	.25	RTL	2	13	0.0	4.0	14n	14n	14n	22m	293m	0	75	1	B0360	CN19
88	2NB4018	3	10M	MON	.84	.25	RTL	4	12	0.0	4.0	40n	40n	40n	43m	293m	0	75	1	B0332	CN19
89	2NB3002	3	10M	MON	.91	.25	RTL	2	13	0.0	3.6	14n	14n	14n	22m	250m	15	65	1	B0360	CN19
90	2NB3018	3	10M	MON	.91	.25	RTL	4	12	0.0	3.6	40n	40n	40n	43m	250m	15	65	1	B0332	CN19
91	SN1512	3	10M	MON	2.5	.40	DTL	10	7	0.0	5.5	30n			20m	750m	-55	125	1		TO84
92	MC282G	3	10M†	MON	6.0	.40	DTL				6.0	18n			19m	550m	-55	125	1	B0319	CN42
93	FT57	3	10M	PCB	4.0	0.0	DTL	2	14	0	8	40n	5.0n	5.0n	3.3	1.5	5	71	10		CB37a
94	DC10CFF1	3	10M	PCB	-6.0	0.0		3	4	18	18	25n	50n	80n		1.2	-55	55	4	B0331	
95	FF941	3	10M	PCB	-6.0	0.0	RCT	3	4	12	12	25n	26n	30n	1.8	1.5 Δ	-45	65	4	B0313	CB1
96	FF945	3	10M	PCB	-6.0	0.0	RCT	6	4	12	12	25n	26n	30n	2.6	1.5 Δ	-45	65	4	B031	CB1
97	DC10MFF1	3	10M	PCM	-6.0	0.0		3	4	18	18	25n	50n	80n		1.2	-55	55	1	B038b	
98	DC10MFF3	3	10M	PCM	-6.0	0.0		7	4	18	18	25n	50n	80n		1.2	-55	55	1	B037	
99	DC10MFF4	3	10M	PCM	-6.0	0.0		7	4	18	18	25n	50n	80n		1.2	-55	55	1	B038	
100	DC10MFF10	3	10M	PCM	-6.0	0.0		5	4	18	18	25n	50n	80n		1.2	-55	55	1	B038a	
101	MM10443	3	10M	3DM	6.0	0.0				6	18								1		MP38
102	WM10443	3	10M	3DM	6.5	0.0				6	18								1		M43
103	FF31-1	3	10M	3DM	-10	0.0	DTL	6	3	12	12	10n	20n	30n	230m	2.0	-35	65	1	B0336a	M15
104	6F10G	3	20M	MON	3.3	.26	TTL	6	15	0	5	20n	5.0n	8.0n	30m	900m	-55	125	1	B0388a	TO84
105	6F10K	3	20M	MON	3.3	.26	TTL	6	15	0	5	20n	5.0n	8.0n	30m	900m	-55	125	1	B0388a	TO116
106	6F11G	3	20M	MON	3.3	.26	TTL	6	7	0	5	20n	5.0n	8.0n	30m	900m	-55	125	1	B0388a	TO84
107	6F11K	3	20M	MON	3.3	.26	TTL	6	7	0	5	20n	5.0n	8.0n	30m	900m	-55	125	1	B0388a	TO116
108	6F12D	3	20M	MON	3.3	.26	TTL	6	12	0	5	20n	5.0n	8.0n	30m	900m	0	75	1	B0388a	TO116
109	6F12G	3	20M	MON	3.3	.26	TTL	6	12	0	5	20n	5.0n	8.0n	30m	900m	0	75	1	B0388a	TO84
110	6F13D	3	20M	MON	3.3	.26	TTL	6	6	0	5	20n	5.0n	8.0n	30m	900m	0	75	1	B0388a	TO116

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

4. BINARY OR FLIP - FLOP

IN ORDER OF (1) FLIP-FLOP (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF FLIP-FLOP	2 MAX OPER-ATING FREQ. (Hz)	3 PRO-CESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	PROPA-GATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	6F13G	3	20M	MON	3.3	.26	TTL	6	6	0	5	20n	5.0n	8.0n	30m	900m	0	75	1	B0388a	TO84
2	SF10#1	3	20M	MON	3.3	.26	TTL	6	15	0.0	5.0	20n	5.0n	8.0n	30m	900m	-55	125	1	B0388A	FP18
3	SF10#2	3	20M	MON	3.3	.26	TTL	6	15	0.0	5.0	20n	5.0n	8.0n	30m	900m	-55	125	1	B0388a	M75
4	SF11#1	3	20M	MON	3.3	.26	TTL	6	7	0.0	5.0	20n	5.0n	8.0n	30m	900m	-55	125	1	B0388a	FP18
5	SF11#2	3	20M	MON	3.3	.26	TTL	6	7	0.0	5.0	20n	5.0n	8.0n	30m	900m	-55	125	1	B0388a	M75
6	SF12#1	3	20M	MON	3.3	.26	TTL	6	12	0.0	5.0	20n	5.0n	8.0n	30m	900m	0	75	1	B0388a	FP18
7	SF12#2	3	20M	MON	3.3	.26	TTL	6	12	0.0	5.0	20n	5.0n	8.0n	30m	900m	0	75	1	B0388a	M75
8	SF13#1	3	20M	MON	3.3	.26	TTL	6	6	0.0	5.0	20n	5.0n	8.0n	30m	900m	0	75	1	B0388a	FP18
9	SF13#2	3	20M	MON	3.3	.26	TTL	6	6	0.0	5.0	20n	5.0n	8.0n	30m	900m	0	75	1	B0388a	M75
10	RF10K	3	20M†	MON	3.4	.20	TTL	6	15	0	5.0				30 †	1.1	-55	125	1	B0388a	FP21b
11	RF10P	3	20M†	MON	3.4	.20	TTL	6	15	0	5.0				30 †	1.1	-55	125	1		M105k
12	RF11D	3	20M†	MON	3.4	.20	TTL	6	7	0	5.0				30 †	1.1	-55	125	1	B0388a	M105m
13	RF11K	3	20M†	MON	3.4	.20	TTL	6	7	0	5.0				30 †	1.1	-55	125	1	B0388a	FP21b
14	RF11P	3	20M†	MON	3.4	.20	TTL	6	7	0	5.0				30 †	1.1	-55	125	1		M105k
15	RF12D	3	20M†	MON	3.4	.20	TTL	6	12	0	5.0				30 †	1.1	0	75	1	B0388a	M105m
16	RF12K	3	20M†	MON	3.4	.20	TTL	6	12	0	5.0				30 †	1.1	0	75	1	B0388a	FP21b
17	RF12P	3	20M†	MON	3.4	.20	TTL	6	12	0	5.0				30 †	1.1	0	75	1		M105k
18	RF13D	3	20M†	MON	3.4	.20	TTL	6	6	0	5				30m†	1.1	0	75	1	B0388a	M105m
19	RF13K	3	20M†	MON	3.4	.20	TTL	6	6	0	5				30m†	1.1	0	75	1	B0388a	FP21b
20	RF13P	3	20M†	MON	3.4	.20	TTL	6	6	0	5				30m†	1.1	0	75	1		M105k
21	SW950-1D	3	30M†	MON		.30†	DTL	6	8†	0.0	8.0	25n			30m	1.0	-55	125	1	B03120	TO85
22	SW950-2D	3	30M†	MON		.30†	DTL	6	8†	0.0	8.0	25n			30m	1.0	0	75	1	B03120	TO85
23	MC352F	3	40M	MON	-.75	-1.6	ECT	6Δ	15	5.2	0.0	15n	17n	18n	48m		0	75	1	B0320	TO91
24	MC352G	3	40M	MON	-.75	-1.6	ECT	6Δ	15	5.2	0.0	15n	17n	18n	48m		0	75	1	B0320	CN9
25	DC50CSFF1	3	50M	PCB	3.0	0.0		3	4	12	12	9.0n	7.0n	10n		1.0	-10	100	4	B0331	
26	DC50MSFF1	3	50M	PCM	3.0	0.0		3	4	12	12	9.0n	7.0n	10n		1.0	-10	100	1	B038b	
27	DC50MSFF4	3	50M	PCM	3.0	0.0		7	4	12	12	9.0n	7.0n	10n		1.0	-10	100	1	B038	
28	MC1014L	3	80M	MON	-.75	-1.6	ECT	3	50	8	0	5.0n	9.0n	8.5n	140m†	175m	0	75	2	B03125	TO116
29	MC1015L	3	80M	MON	-.75	-1.6	ECT	3	50	5.2	0.0	5.0n	9.0n	8.5n	140m†	175m	0	75	2	B03126	TO116
30	MC1016L	3	80M	MON	-.75	-1.6	ECT	2	50	5.2	0.0	5.0n	9.0n	8.5n	140m†	175m	0	75	2	B03138	TO116
31	MC1033L	3	80M	MON	-.75	-1.6	ECT	2	50	5.2	0.0	5.0n	9.0n	8.5n	140m†	175m	0	75	2	B03139	TO116
32	CD2304-945	3,2	5.0M%	MON	3.1%	.40*†	DTL	3†	12	0.0	5.0	25n%	75n	75n	70m	1.0 Δ	-55	125	1	B03132	FP44a
33	CD2304D945	3,2	5.0M%	MON	3.1%	.40*†	DTL	3†	12	0.0	5.0	25n%	75n	75n	70m	1.0 Δ	-55	125	1	B03132	TO116
34	CD2304E845	3,2	5.0M%	MON	3.1%	.45*†	DTL	3†	12	0.0	5.0	25n%	75n	75n	75m	1.0 Δ	0	75	1	B03132	TO116
35	CD2305-948	3,2	5.0M%	MON	4.0%	.40*†	DTL	3†	11	0.0	5.0	25n%	75n	65n	81m	1.0 Δ	-55	125	1	B03132a	FP44a
36	CD2305D948	3,2	5.0M%	MON	4.0%	.40*†	DTL	3†	11	0.0	5.0	25n%	75n	65n	81m	1.0 Δ	-55	125	1	B03132a	TO116
37	CD2305E848	3,2	5.0M%	MON	4.3%	.45*†	DTL	3†	11	0.0	5.0	25n%	75n	65n	87m	1.0 Δ	0	75	1	B03132a	TO116
38	MIC1890	3,2	8.0MΔ	MON	3.1†%	.40†*	DTL		24	0.0	5.0	55n%			96mΔ	1.0		T3	2	B0395d	ZB160
39	SW945-1D	3,2	15M†	MON	1.8%	1.2*	DTL	7	12†	0.0	8.0	50n			40m	1.0	-55	125	1	B0395	TO85
40	SW945-2D	3,2	15M†	MON	1.8%	1.2*	DTL	7	12†	0.0	8.0	50n			40m	1.0	0	75	1	B0395	TO85
41	SW948-1D	3,2	20M†	MON	1.8%	1.2*	DTL	7	11†	0.0	8.0	40n			50n	1.0	-55	125	1	B0395a	TO85
42	SW948-2D	3,2	20M†	MON	1.8%	1.2*	DTL	7	11†	0.0	8.0	40n			50n	1.0	-55	125	1	B0395a	TO85
43	DC01MFF3	3B	20k	PCM	-6.0	0.0		7	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	1	B037	
44	FF104	3B	50k	3DM	0.0	-6.0	RCT	6	3	12	12	400n	500n	4.0u	200m	1.0	0	55	1	B032	M2
45	DC1MFF5	3B	.10M	PCM	-6.0	0.0		7	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	1	B039	
46	FF203	3B	250k	3DM	0.0	-6.0	RCT	10	3	12	12	250n	400n	2.8u	200m		-54	71	1	B033	M2
47	FF204	3B	250k	3DM	0.0	-6.0	RCT	6	3	12	12	250n	400n	2.5u	200m	1.0	-54	71	1	B032a	M2
48	FF205	3B	250k	3DM	0.0	-6.0	RCT	2	4	12	12	250n	400n	2.8u	200m		-54	71	1	B034	M2
49	FF303	3B	500k	3DM	0.0	6.0	RCT	10	4	12	12	250n	100n	1.5u	200m		-25	125	1	B033a	M2
50	FF304	3B	500k	3DM	0.0	6.0	RCT	6	4	12	12	250n	100n	1.5u	200m	1.0	-25	125	1	B032b	M2
51	FF305	3B	500k	3DM	0.0	6.0	RCT	2	4	12	12	250n	100n	1.5u	200m		-25	125	1	B034a	M2
52	4218	3B	1.0M	PCB	0.0	-3.0	RCT	4	9	15	10		100n	170n	1.5	500m	-20	55	4	B0392	CB30
53	4219	3B	1.0M	PCB	0.0	-3.0	RCT	4	9	15	10		90n	80n	1.8	500m	-20	55	5	B0370	CB30
54	4220	3B	1.0M	PCB	0.0	-3.0	RCT	3	9	15	10		80n	120n	2.7	500m	-20	55	8	B0371	CB30
55	DC2MFF5	3B	2.0M	PCM	6.0	0.0		7	6	18	18	50n	150n	250n		1.2	-55	55	1	B039	
56	DC2MSFF5	3B	2.0M	PCM	6.0	0.0		7	6	18	18	50n	150n	250n		1.2	-55	100	1	B039	
57	819A	3B	5.0MΔ	PCB	2.0%	.45*	DTL	2	7	0.0	5.0				240m	1.4	0	70	2	B0398	CB50
58	FT20	3B	5.0M	PCB	4.0	0.0	DTL	10	13	0	8	200n	5.0n	5.0n	2.4	1.5	5	71	2		CB37a
59	FF403	3B	5.0M	3DM	0.0	-6.0	RCT	10	4	12	12	30n	50n	200n	200m		-25	60	1	B033	M2
60	FF404	3B	5.0M	3DM	0.0	-6.0	RCT	6	4	12	12	30n	50n	200n	200m	1.0	-25	60	1	B032a	M2
61	FF405	3B	5.0M	3DM	0.0	-6.0	RCT	2	4	12	12	30n	50n	200n	200m		-25	60	1	B034	M2
62	6227	3B	10M	PCB	0.0	-3.0	RCT	1	4	15	10	20n	40n	70n	2.9	500m	-20	55	8	B0368	CB30
63	DC10MFF5	3B	10M	PCM	-6.0	0.0		7	4	18	18	25n	50n	80n		1.2	-55	55	1	B039	
64	NB1019	3B	30M	MON	.82	.57	RTL	3	4†	2.7	3.3	13n	20n	30n	56m	540m	-55	125	1	B0354	CN29
65	NB1023	3B	30M	MON	.82	.57	RTL	4	4†	2.7	3.3	13n	11n	14n	2.8m	540m	-55	125	1	B0355	CN29
66	NB2019	3B	30M	MON	.82	.57	RTL	3	4†	2.7	3.3	13n	20n	30n	56m	540m	0	100	1	B0354	CN29
67	NB2023	3B	30M	MON	.82	.57	RTL	4	4†	2.7	3.3	13n	11n	14n	28m	540m	0	100	1	B0355	CN29
68	NB3019	3B	30M	MON	.82	.57	RTL	3	4†	2.7	3.3	13n	20n	30n	56m	540m	15	55	1	B0354	CN29
69	NB3023	3B	30M	MON	.82	.57	RTL	4	4†	2.7	3.3	13n	11n	14n	28m	540m	15	55	1	B0355	CN29
70	8202	3B	30M	PCB	-1.5	0.0	RTL	10	12	15	10	7.0n			4.6	500m	-20	55	1	B0375	CB30b
71	DC50MSFF3	3B	50M	PCM	3.0	0.0		7	4	12	12	9.0n	7.0n	10n		1.0	-10	100	1	B037	
72	DC50MSFF5	3B	50M	PCM	3.0	0.0		7	4	12	12	9.0n	7.0n	10n		1.0	-10	100	1	B039	
73	402	3BC	300k	PCB	-6.8	0.0	DTL	2	2	12	12		200n	500n	1.3		0	55	1		CB24
74	402#	3BC	300k	PCB	-6.8	0.0	DTL	2	2	12	12		200n	500n	1.3		0	55	1		CB24
75	RD204	3F		MON		.25	DTL	10Δ	10	0.0	5.0	8.0n			20m	1.2	-55	125	1	B0321	TO84
76	RD204#1	3F		MON		.25	DTL	10Δ	10	0.0	5.0	8.0n			20m	1.2	-55	125	1	B0321	CN14
77	RM202Q	3F		MON	1.0	1.8	DTL	6	20	0.0	10	32n			19m	550m	-55	125	1	B0324	FP46
78	RM212Q	3F		MON	1.0	1.8	DTL	8Δ	20	0.0	10	32n			19m	550m	-55	125	1	B0325	FP46
79	PL9945	3F		MON	2.0	1.0	DTL	5		0.0	5.0								1	B0395	TO86
80	PL931	3F		MON	2.0	1.1	DTL	5		0.0	5.0						-55	125	1	B0381	TO8
81	PL945	3F		MON	2.0	1.1	DTL	5		0.0	5.0						-55	125	1	B0395	TO86
82	PL948	3F		MON	2.0	1.1	DTL	5		0.0	5.0						-55	125	1	B0395a	TO86
83	PL9931	3F		MON	2.0	1.1	DTL	5		0.0	5.0								1	B0381	TO86
84	PL9948	3F		MON	2.0	1.1	DTL	5		0.0	5.0								1	B0395a	TO86
85	RD208	3F		MON	4.5	.25†	DTL	10Δ	7	0	5.5	7.0n			20m	1.2	-55	125	1	B0321	TO84
86	RD308	3F		MON	4.5	.25†	DTL	10Δ	4	0	5.5	7.0n			20m	1.2	-55	125	1	B0321	TO84
87	RD508	3F		MON	4.5	.30†	DTL	10Δ	7	0	5.5	7.0n			20m	1.2	0	75	1	B0321	TO84
88	FA20	3F	200k	PCB	-6.0	0.0	DTL	6	12	18	12	1.2uΔ	500n†	800n†	1.6	1.5 *	-20	55	4	B03109	CB13a
89	FF20	3F	200k	PCB	-6.0	0.0	DTL	5Δ	6	18	12	1.2uΔ	500n†	800n†	600m	1.5 *	-20	55	4	B03108	CB13a
90	FF14	3F	200k	PCB	-11	0.0	DTL	8	12	12	6.0	250n			830m		-10	55	4	B0376	CB33
91	FF16	3F	200k	PCB	-11	0.0	DTL	5	12	12	6.0	250n			1.0		-10	55	6	B0377	CB33
92	US0102A	3F	200k	PCB	-11	0.0	DTL	5	12	12	6.0	250n			1.0		-10	55	6	B0377	CB33
93	EM2502	3F	250k	3DM	0.0	-6.0	DTL	6	10	12	6.0	180n	300n	1.0u	200m	2.0	-55	71	1	B0318	M62a
94	FC19	3F	300k	PCB	8.0	0.0	DTL	15	6	25	25	110n%	70n	40n	2.5	3.9	-55	100	6	B0393	CB34
95	407	3F	300k	PCB	-6.8	0.0	DTL	10	10	12	12				2.0		0	55	1		CB24
96	416	3F	300k	PCB	-6.8	0.0	DTL	20	10	12	12				1.4		0	55	1		CB24
97	UFF2Z	3F	1.0M	PCB	0.0	-6.0	DTL	5	9	15	6	150nΔ	200n	200n	850m	1.5	0	50	4	B0326	CB14
98	FF130	3F	1.0M	PCB	6.0	0.0	DTL	5Δ	12	12	18	100n			1.3	1.5 *	-55	100	4	B03106	CB13a
99	FA130	3F	1.0M	PCB	6.0	1.0	DTL	5	12	12	18				2.7	1.5 *	-55	100	4	B03107	CB13a
100	MS16	3F	1.0M	PCB	6.2	0.0	DTL	12	8	18	18	40n	100n	100n	2.4	2.5 *	-30	100	1	B0351	CB25
101	FH19	3F	1.0M	PCB	8.0	0.0	DTL	10	12	25	25	60n%	35n	25n	4.5	3.9	-55	100	6	B0393	CB34
102	FA30	3F	1.0M	PCB	-6.0	0.0	DTL	6	12	18	12	250nΔ	100n†	150n†	2.7	1.5 *	-20	55	4	B03109	CB13a
103	FF30	3F	1.0M	PCB	-6.0	0.0	DTL	5Δ	6	18	12	250nΔ	100n†	150n†	1.3	1.5 *	-20	55	4	B03108	CB13a
104	MC02	3F	1.0M	PCB	-6.2	0.0	DTL	5	2	18	18	40n	100n	100n	1.3	2.5 *	0	55	4		CB25
105	MC03	3F	1.0M	PCB	-6.2	0.0	DTL	21	2	18	18	50n	100n	100n	1.8	2.5 *	0	55	4		CB25
106	MC07	3F	1.0M	PCB	-6.2	0.0	DTL	7	2	18	18	40n	100n	100n	1.7	2.5 *	0	55	4		CB25
107	MC16	3F	1.0M	PCB	-6.2	0.0	DTL	6	2	18	18	50n	106n	100n	2.4	2.5 *	0	55	4	B0351	CB25
108	TF200	3F	1.0M	PCB	-10	0.0	RCT	6Δ	6	6.0	12	30n	200n	150n	1.4		-55	100	4	B0330	CB15
109	8107	3F	1.0M	TFH	.50	14	DTL	4	4	2	20		400n	100n	240m		-55	125	1	B0314	M6
110	UFF2M	3F	1.0M	3DM	0.0	-6.0	DTL	5	9	15	6	150nΔ	200n	200n	219m	1.5	0	50	1	B0326a	MP13

4. BINARY OR FLIP - FLOP

IN ORDER OF (1) FLIP-FLOP (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF FLIP-FLOP	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	1026-0010	3F	1.2M	PCB	6.5	0.0		6	8	13	13						-55	55	4	B0342	
2	1039-0003	3F	2.0M		10.5	0.0		4△	8	13	13	40n△		95n			0	55		B0343	M26b
3	FF24	3F	2.0M	PCB	-11	0.0	DTL	8	12	12	6	60n			670m		-10	55	4	B0376	CB33
4	FF26	3F	2.0M	PCB	-11	0.0	DTL	5	12	12	6	60n			830m		-10	55	6	B0377	CB33
5	EM3001	3F	2.0M	3DM	0.0	6.0	DTL	6	8	6	12	15n	50n	70n	215m		-55	125	1	B03100	M62a
6	EM3002	3F	2.0M	3DM	0.0	6.0	DTL	6	10	6	12	15n	50n	70n	200m		-55	125	1	B0399	M62a
7	EM2602	3F	2.0M	3DM	0.0	-6.0	DTL	6	10	12	6	40n	32n	70n	345m	2.0	-55	71	1	B0318	M62a
8	SN54L71R	3F	3M%△	MON	2.0%	.70*	TTL	9	20	0	8	48n%			3.8m†	1.0 △	-55	125	1	B03117	TO84
9	SN74L71R	3F	3M%△	MON	2.0%	.70*	TTL	9	20	0	8	48n%			3.8m†	1.0 △	0	70	1	B03117	TO84
10	FA35	3F	5.0M	PCB	-6.0	0.0	DTL	6	8	18	12	50n△	25n†	50n†	3.5	1.5 *	-20	55	4	B03109	CB13a
11	FF35	3F	5.0M	PCB	-6.0	0.0	DTL	5△	4	18	12	50n△	25n†	50n†	1.8	1.5 *	-20	55	4	B03108	CB13a
12	FL19	3F	8.0M	PCB	8.0	0.0	DTL	10	14	25	25	35n%	20n	15n	4.6	3.5	-55	100	6	B0393	CB34
13	FF32	3F	8.0M	PCB	-11	0.0	DTL	8	12	12	6	20n			1.7		-10	55	2	B0376a	CB33
14	FF34	3F	8.0M	PCB	-11	0.0	DTL	5	12	12	6	20n			3.3		-10	55	4	B0377a	CB33
15	UC703	3F	10M	PCB	0.0	6.0	DTL		3	12	12		20n	20n	938m		-55	125	2	B0335	CB16
16	NB1020	3F	20M	MON	.82	.57	RTL	4	4	2.7	3.3	20n	20n	20n	27m	540m	-55	125	1	B0394	CN29
17	NB2020	3F	20M	MON	.82	.57	RTL	4	4	2.7	3.3	20n	20n	20n	27m	540m	0	100	1	B0394	CN29
18	NB3020	3F	20M	MON	.82	.57	RTL	4	4	2.7	3.3	20n	20n	20n	27m	540m	15	55	1	B0394	CN29
19	SWF10	3F	20M%	MON	3.5	.26	TTL	6	15	0.0	6.0	24n	5.0n	8.0n	30m	1.0	-55	125	1	B0388	TO86
20	SWF11	3F	20M%	MON	3.5	.26	TTL	6	7	0.0	6.0	24n	5.0n	8.0n	30m	1.0	-55	125	1	B0388	TO86
21	SWF12	3F	20M%	MON	3.5	.26	TTL	6	12	0.0	6.0	24n	5.0n	8.0n	30m	1.0	0	75	1	B0388	TO86
22	SWF13	3F	20M%	MON	3.5	.26	TTL	6	6	0.0	6.0	24n	5.0n	8.0n	30m	1.0	0	75	1	B0388	TO86
23	NB1018	3F	30M	MON	.82	.57	RTL	4	4†	2.7	3.3		40n	40n	43m		-55	125	1	B0353	CN29
24	NB2018	3F	30M	MON	.82	.57	RTL	4	4†	2.7	3.3		40n	40n	43m		0	100	1	B0353	CN29
25.	NB3018	3F	30M	MON	.82	.57	RTL	4	4†	2.7	3.3		40n	40n	43m		15	55	1	B0353	CN29
26	USO110	4		MON	.30*	2.0†	RCT	5	4	0.0	8.0		225n	2.0n	8.0m		-55	125	1	B0472a	TO85
27	SN5101	4		MON	.30	2.3	RCT	5	4	0.0	8.0	300n	500n	2.5u	8.0m	200m	-55	125	1	B0472	TO89
28	SN510A	4		MON	.30	2.5	RCT	4	4	0.0	8.0	300n	170n	1.9u	7.0m	500m	-55	125	1		TO89
29	USO111	4		MON	.30*	3.8†	RCT	5	20	0.0	8.0		225n	2.0n	8.0m		-55	125	1	B0472a	TO85
30	RC945D	4		MON	2.0%	1.0*	DTL	6	12	0	5.0	40n			35m†	500m	0	75	1		M105m
31	RC945J	4		MON	2.0%	1.0*	DTL	6	12	0	5.0	40n			35m†	500m	0	75	1		FP28
32	RC945P	4		MON	2.0%	1.0*	DTL	6	12	0	5.0	40n			35m†	500m	0	75	1		M105k
33	RC945Q	4		MON	2.0%	1.0*	DTL	6	12	0	5.0	40n			35m†	500m	0	75	1		FP26b
34	RC945T	4		MON	2.0%	1.0*	DTL	6	12	0	5.0	40n			35m†	500m	0	75	1		TO101
35	RC948D	4		MON	2.0%	1.0*	DTL	6	12	0	5.0	35n			43m†	500m	0	75	1		M105m
36	RC948J	4		MON	2.0%	1.0*	DTL	6	12	0	5.0	35n			43m†	500m	0	75	1		FP28
37	RC948P	4		MON	2.0%	1.0*	DTL	6	12	0	5.0	35n			43m†	500m	0	75	1		M105k
38	RC948Q	4		MON	2.0%	1.0*	DTL	6	12	0	5.0	35n			43m†	500m	0	75	1		FP26b
39	RC948T	4		MON	2.0%	1.0*	DTL	6	12	0	5.0	35n			43m†	500m	0	75	1		TO101
40	RM945P	4		MON	2.0%	1.0*	DTL	6	12	0	5.0	40n			35m†	500m	-55	125	1		M105k
41	RM948P	4		MON	2.0%	1.0*	DTL	6	12	0	5.0	35n			43m†	500m	-55	125	1		M105k
42	SI848	4		MON	2.0	1.1	DTL	7	2	0	5.5	75n△					0	75	1		TO84
43	SI948	4		MON	2.0	1.1	DTL	7	2	0	5.5	75n△					-55	125	1		TO84
44	512BH	4		MON	2.7	.20	TTL	4	10	0	5.5				3.0m		-55	125			
45	PD9945-51	4		MON	3.1%	.40*†	DTL	7	10	0.0	8.0	75n△			130m	1.0	-55	125	1	B0395	TO116
46	PL9945-51	4		MON	3.1%	.40*†	DTL	7	10	0.0	8.0	75n△			130m	1.0	-55	125	1	B0395	TO86
47	PD9945-59	4		MON	3.1%	.45*†	DTL	7	12	0.0	8.0	80n△			140m	1.0	0	75	1	B0395	TO116
48	PL9945-59	4		MON	3.1%	.45*†	DTL	7	12	0.0	8.0	80n△			140m	1.0	0	75	1	B0395	TO86
49	PM9945-59	4		MON	3.1%	.45*†	DTL	7	12	0.0	8.0	80n△			140m	1.0	0	75	1	B0395	TO116
50	SP424A	4		MON	3.2%	.35*†	TTL	4	7	0	6			100n	44m	1.5	15	55	2	B04125	TO116
51	ST424A	4		MON	3.2%	.35*†	TTL	4	7	0	6			100n	44m	1.5	0	70	2	B04125	TO116
52	PD9948-51	4		MON	4.0%	.40*†	DTL	7	9	0.0	8.0	65n△			130m	1.0	-55	125	1	B02103a	TO116
53	PL9948-51	4		MON	4.0%	.40*†	DTL	7	9	0.0	8.0	65n△			130m	1.0	-55	125	1	B02103a	TO86
54	PD9948-59	4		MON	4.3%	.45*†	DTL	7	11	0.0	8.0	70n△			140m	1.0	0	75	1	B02103a	TO116
55	PL9948-59	4		MON	4.3%	.45*†	DTL	7	11	0.0	8.0	70n△			140m	1.0	0	75	1	B02103a	TO86
56	PM9948-59	4		MON	4.3%	.45*†	DTL	7	11	0.0	8.0	70n△			140m	1.0	0	75	1	B02103a	TO116
57	UC1002B	4		TFH	6.0	0.0	DTL	4	5	8	15	14n	90n†	10n†	65m	500m	-55	125	1	B0478	M55
58	SWF31S	4	12	MON	1.7%	1.2*	TTL	6	7	0.0	8.0	20n			30m		0	75	1	B0442	CN52
59	SWF32F	4	12	MON	1.7%	1.2*	TTL	6	12	0.0	7.0	20n			30m		0	75	1	B0442	TO86
60	SWF32S	4	12	MON	1.7%	1.2*	TTL	6	12	0.0	7.0	20n			30m		0	75	1	B0442	CN52
61	SWF33F	4	12	MON	1.7%	1.2*	TTL	6	6	0.0	7.0	20n			30m		0	75	1	B0442	TO86
62	SWF33S	4	12	MON	1.7%	1.2*	TTL	6	6	0.0	7.0	20n			30m		0	75	1	B0442	CN52
63	MFF31-62	4	50k	PCB	-6.0	0.0				12	12						0	50	4		CB26
64	US0100A	4	100k	MON	2.0%	.30*†	RCT	4	4	0.0	8.0	300n	170n	1.9u	7.0m		-55	125	1	B0459	TO89
65	US0100B	4	100k	MON	2.0%	.30*†	RCT	4	4	0.0	8.0	300n	170n	1.9u	7.0m		-55	125	1	B0459	TO90
66	USR0100A	4	100k	MON	2.0%	.30*†	RCT	4	4	0.0	8.0	300n	170n	1.9u	7.0m		-55	125	1	B0459	FP22
67	USR0100B	4	100k	MON	2.0%	.30*†	RCT	4	4	0.0	8.0	300n	170n	1.9u	7.0m		-55	125	1	B0459	FP23
68	FF642	4	100k	PCB	-6.0	0.0	RCT	7	6	12	12	1.0u	1.0u	2.0u	500m	1.5 △	-45	65	4	B041	CB1
69	B892000	4	100k	3DM			RTL	4		6.0	6.0	800n	300n	2.0u			-20	60	1	B046	M4
70	T102A	4	250k		-3.0	-11†		3		12	12		1.0u	1.0u			-45	65	1	B04134	M16
71	CT101B3	4	250k	PCB	-3.0	-11	RCT	4		12	0.0	400n	1.0u	2.0u	180m	1.5	-45	65	3		CB16
72	CT633-2	4	250k	PCB	-3.0	-11	DTL	7		12	0.0	400n	1.0u		120m	1.5	-45	65	2		CB16
73	CT643-2	4	250k	PCB	-3.0	-11	DTL	5		12	0.0	400n	1.0u		450m	1.5	-45	65	2		CB16
74	EM2500	4	250k	3DM	0.0	-6.0	DTL	2	10	12	6.0	180n	300n	1.0u	250m		-55	71	1	B04120	M62a
75	T101B	4	250k	3DM	-3.0	-11	RCT	4		12	0.0	400n	1.0u	2.0u	60m	1.5	-45	65	1	B0427	M17
76	T157	4	250k	3DM	-3.0	-11	DTL	4		12	12	400n	1.0u	2.0u	108m	1.5	-45	65	1	B0427	M17
77	T633	4	250k	3DM	-3.0	-11	DTL	7		12	0.0	400n	1.0u		60m	1.5	-45	65	1	B0428	M17
78	T643	4	250k	3DM	-3.0	-11	DTL	5		12	0.0	400n	1.0u		450m	1.5	-45	65	1	B0430	M17
79	T644	4	250k	3DM	-3.0	-11	DTL	5		12	0.0	400n	1.0u		325m	1.5	-45	65	1	B0430	M17
80	MEM1005	4	500k	MOS	-10%	-20*	TTL	5		30	.30	100n	400n	850n	72m	1.0 *	-55	85	1	B0486	CN58
81	FF742	4	500k	PCB	-6.0	0.0	RCT	7	6	12	12	500n	350n	350n	800m	1.5 △	-45	65	4	B041	CB1
82	US0110C	4	800k	MON	2.0%	.30*†	RCT	5	4	0.0	8.0		170n	1.9u	8.0m		-55	125	1	B0472b	TO85
83	USR0110C	4	800k	MON	2.0%	.30*†	RCT	5	4	0.0	8.0		170n	1.9u	8.0m		-55	125	1	B0472b	TO85
84	US0111C	4	800k	MON	3.8%	.30*†	RCT	5	20	0.0	8.0		170n	2.0u	8.0m		-55	125	1	B0472a	TO85
85	USR0111C	4	800k	MON	3.8%	.30*†	RCT	5	20	0.0	8.0		225n	2.0u	8.0m		-55	125	1	B0472a	TO85
86	NS704G	4	1M%†	MON	1.7	.60	DTL	5	2	0	8.2	40n			36m	1.0 △	0	70	1	B0419d	TO91
87	NS704K	4	1M%†	MON	1.7	.60	DTL	5	2	0	8.2	40n			36m	1.0 △	0	70	1	B0419d	CN17
88	NS729J	4	1M%†	MON	1.85	.70	DTL	6	2	0	8.2	98n		75n	250m	1.0 △	0	70	1	B0419d	TO88
89	MEM529	4	1.0M	MON	-9.0	0.0		3		28	0.0		500n	500n	80m	3.0	-55	125	1	B0470	CN49
90	FF8714C	4	1.0M	TFH	5.0	2.0	RCT	3	5	0	15	50n	50n	25n	5.0m	3.0	-55	125	1	B0466	
91	FF8724C	4	1.0M	TFH	5.0	2.0	RCT	3	5	0	15	50n	50n	25n	5.0m	3.0	-55	125	1	B0466	
92	FF842	4	2.0M	PCB	-6.0	0.0	RCT	7	5	12	12	75n	90n	110n	1.0	1.5 △	-45	65	4	B041	CB1
93	EM2600	4	2.0M	3DM	0.0	-6.0	DTL	2	10	12	6	40n	32n	70n	196m		-55	71	1	B04120	M62a
94	270MY	4	4.0M				DTL		4						35m			T3	1	B0451	ZB46
95	511A	4	4.0M△	MON	4.0%	.25*	TTL	5	3	0.0	6.0	70n%	60n†	60n†		800m△	-55	125	2	B0485	FP26a
96	TA5362	4	4.0M△	MOS	9.99	.01†	TTL	3	50	15	15	90n			400u†	4.0 △	-55	125	2	B04137	M135
97	FA335	4	5.0M	MOH	6.3*	1.1*	DTL	4	2	0	6.3				400m		0	55	4	B0465	CB13
98	WC213D	4	5.0M%	MON	2.1	1.1	DTL	1	7†	0	6	55n			95m	700m	0	75	1	B0423	TO116
99	WC213G	4	5.0M%	MON	2.1	1.1	DTL	1	7†	0	6	55n			95m	700m	0	75	1	B0423	TO84
100	WC213T	4	5.0M%	MON	2.1	1.1	DTL	1	7†	0	6	55n			95m	700m	0	75	1	B0423	CN18
101	215	4	5.0M△	PCB	2.0%	.45*	DTL	4	11	0.0	5.0				540m	1.4	0	70	6	B0483	CB50
102	690	4	5.0M△	PCB	2.0%	.45*	DTL	6	11	0.0	5.0				300m	1.4	0	70	4	B0484	CB50
103	IFF0239	4	5.0M	PCB	2.0%	1.1*	DTL	3	11	0	5	90n△			545m	500m	0	75	8	B0499	CB51
104	IFF2239	4	5.0M	PCB	2.0%	1.1*	DTL	3	11	0	5	90n△			545m	500m	0	75	8	B0499	CB51
105	FF881	4	5.0M	PCB	2.2%	.70*	DTL	7	10	0	5	40n			310m	400m	0	75	4		CB☒
106	FF882	4	5.0M	PCB	2.2%	.70*	DTL	5	10	0	5	40n			510m	400m	0	75	6		CB☒
107	FF8515C	4	5.0M	TFH	5.0	2.0	RCT	3	5	0	12	20n	35n	15n	24m	2.5	-55	125	1	B0466	
108	FF8525C	4	5.0M	TFH	5.0	2.0	RCT	3	5	0	12	20n	35n	15n	24m	2.5	-55	125	1	B0466	
109	FF402	4	5.0M	3DM	0.0	-6.0	RCT	3	3	12	12	30n	50n	150n	370m		-25	60	1	B045	M2
110	NE8424A	4	8M†Ø	MON	3.6%	.35†*	DTL	4		0	6			75n	44m	1.4	0	75	2	B04125	TO116

4. BINARY OR FLIP - FLOP

IN ORDER OF (1) FLIP-FLOP (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF FLIP-FLOP	2 MAX OPER-ATING FREQ. (Hz)	3 PRO-CESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	PROPA-GATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	NE8424J	4	8M†Ø	MON	3.6%	.35†*	DTL	4		0	6			75n	44m	1.4	0	75	2	B04125	TO88
2	SE8424A	4	8M†Ø	MON	3.6%	.35†*	DTL	4		0	6			75n	44m	1.4	-55	125	2	B04125	TO116
3	SE8424J	4	8M†Ø	MON	3.6%	.35†*	DTL	4		0	6			75n	44m	1.4	-55	125	2	B04125	TO88
4	NE424A	4	9.0M†	MON	3.2%	.35†*	TTL	4	14†	0	6			75n	28m	1.0 Δ	0	70	2	B04125	M105b
5	NE424J	4	9.0M%	MON	3.2%	.35†*	TTL	4	7†	0	6			75n	28m	1.0 Δ	0	70	2	B04125	TO88
6	SE424J	4	9.0M%	MON	3.2%	.35†*	TTL	4	7†	0	6			75n	28m	1.0 Δ	-55	125	2	B04125	TO88
7#	SFC324M	4	10M	MON			DTL	4	7			25n			10m†	450m	-55	125	1	B0290	TO100
8#	SFC324PM	4	10M	MON			DTL	4	7			25n			10m†	450m	-55	125	1	B0290	TO91
9	ST629A	4	10M†	MON			DTL	6	5	0.0	6.0				40m	1.0 Δ	0	70	1	B0419c	M105
10	2NC1013	4	10M	MON	.75	.22	RTL	4	3	0.0	4.0	45n	40n	50n	12m	250m	-55	125	1	B0452	CN19
11	2NC2013	4	10M	MON	.80	.24	RTL	4	3	0.0	4.0	45n	40n	50n	12m	200m	0	100	1	B0452	CN19
12	2NC4013	4	10M	MON	.80	.24	RTL	4	3	0.0	4.0	45n	40n	50n	12m	200m	0	75	1	B0452	CN19
13	2NC3013	4	10M	MON	.85	.25	RTL	4	3	0.0	3.6	45n	40n	50n	12m	170m	15	65	1	B0452	CN19
14	SN1510	4	10M	MON	2.5	.40	DTL	7	7	0.0	5.5	50n			20m	750m	-55	125	1	B0474	TO84
15	43B4	4	10MΔ	MON	2.8%	.6†*	DTL	5	8	8	8				20m		-55	125	1	B04101a	TO100
16	43B4P1	4	10MΔ	MON	2.8%	.6†*	DTL	5	8	8	8				20m		-55	125	1	B04101b	TO86
17	43B4P2	4	10MΔ	MON	2.8%	.6†*	DTL	5	8	8	8				20m		-55	125	1	B04101b	TO88
18	43B4P	4	10MΔ	MON	2.8%	.6†*	DTL	5	8	8	8				20m		-55	125	1	B04101a	TO91
19	77B4P1	4	10MΔ	MON	2.8%	.6†*	DTL	6	8	8	8				20m		-55	125	1	B04101c	TO86
20	77B4P2	4	10MΔ	MON	2.8%	.6†*	DTL	6	8	8	8				20m		-55	125	1	B04101c	TO88
21	78B4	4	10MΔ	MON	2.8%	.6†*	DTL	5	8	8	8				20m		-55	125	1	B04101d	TO100
22	78B4P	4	10MΔ	MON	2.8%	.6†*	DTL	5	8	8	8				20m		-55	125	1	B04101d	TO91
23	6F30G	4	10M	MON	3.3	.26	TTL	6	15†	0	5	18n	5.0n	8.0n	30m	900m	-55	125	1	B0442	TO84
24	6F30K	4	10M	MON	3.3	.26	TTL	6	15†	0	5	18n	5.0n	8.0n	30m	900m	-55	125	1	B0442	TO116
25	6F31G	4	10M	MON	3.3	.26	TTL	6	7†	0	5	18n	5.0n	8.0n	30m	900m	-55	125	1	B0442	TO84
26	6F31K	4	10M	MON	3.3	.26	TTL	6	7†	0	5	18n	5.0n	8.0n	30m	900m	-55	125	1	B0442	TO116
27	6F32D	4	10M	MON	3.3	.26	TTL	6	12†	0	5	18n	5.0n	8.0n	30m	900m	0	75	1	B0442	TO116
28	6F32G	4	10M	MON	3.3	.26	TTL	6	12†	0	5	18n	5.0n	8.0n	30m	900m	0	75	1	B0442	TO84
29	6F33D	4	10M	MON	3.3	.26	TTL	6	6†	0	5	18n	5.0n	8.0n	30m	900m	0	75	1	B0442	TO116
30	6F33G	4	10M	MON	3.3	.26	TTL	6	6†	0	5	18n	5.0n	8.0n	30m	900m	0	75	1	B0442	TO84
31	SF30	4	10M	MON	3.3	.26	TTL	6	15†	0	5	18n	5.0n	8.0n	30m	900m	-55	125	1	B0442	ZB100
32	SF31	4	10M	MON	3.3	.26	TTL	6	7†	0	5	18n	5.0n	8.0n	30m	900m	-55	125	1	B0442	ZB100
33	SF32	4	10M	MON	3.3	.26	TTL	6	12†	0	5	18n	5.0n	8.0n	30m	900m	0	75	1	B0442	ZB100
34	SF33	4	10M	MON	3.3	.26	TTL	6	6†	0	5	18n	5.0n	8.0n	30m	900m	0	75	1	B0442	ZB100
35	SFC324	4	10M	MON	3.5%	.45*	DTL	5	9	0	8	60n			30m	650m	0	80	1	B04121	ZB163
36#	FFJ101A2	4	10M	MON	3.9%	.4*†	DTL	5	7	8	8	20n	75n		33m	1.0	0	75	1	B04101	CN49
37#	FFJ101C1	4	10M	MON	3.9%	.4*†	DTL	5	7	8	8	20n	75n		33m	1.0	0	75	1	B04101	TO91
38#	FFJ102A2	4	10M	MON	3.9%	.4*†	DTL	5	7	8	8				33m	1.0	-55	125	1	B04101	TO74
39#	FFJ102C1	4	10M	MON	3.9%	.4*†	DTL	5	8	8	8				33m	1.0	-55	125	1	B04101	TO91
40	MC209F	4	10M	MON	4.0	.30	DTL	5	8	2	4				16m		-55	125	1	B04101	TO91
41	MC209G	4	10M	MON	4.0	.30	DTL	5	8	2	4				16m		-55	125	1	B04101	CN8
42	MC259F	4	10M	MON	4.0	.30	DTL	5	8		4				16m	500m	0	75	1	B04101	TO91
43	MC259G	4	10M	MON	4.0	.30	DTL	5	8		4				16m	500m	0	75	1	B04101	CN8
44	MC260F	4	10M	MON	4.0	.30	DTL	6	8		4				16m	500m	0	75	1	B038d	TO91
45	MC260G	4	10M	MON	4.0	.30	DTL	6	8		4				16m	500m	0	75	1	B038d	CN8
46	FT56	4	10M	PCB	4.0	0.0	DTL	3	14	0	8	70n	5.0n	5.0n	3.7	1.5	5	71	12		CB37a
47	FF942	4	10M	PCB	-6.0	0.0	RCT	7	4	12	12	25n	26n	30n	2.1	1.5 Δ	-45	65	4	B041	CB1
48	G101A	4	10M	PCB	-6.0	0.0	RCT	3	5	12	6	30n	20n	50n	780m	2.0	-55	71	2	B04139	CB16
49	GA101A	4	10M	PCB	-6.0	0.0	RCT	5	5	12	6.0	30n	20n	50n	780m	2.0	-55	71	2		CB16
50	FF8416C	4	10M	TFH	5.0	2.0	RCT	3	5	0	9	12n	25n	10n	48m	2.0	-55	125	1	B0466	
51	FF8426C	4	10M	TFH	5.0	2.0	RCT	3	5	0	9	12n	25n	10n	48m	2.0	-55	125	1	B0466	
52	TMC400-03	4	10M	TFH	6.0	0.0	RCT		15	3.0	6.0	15n	30n	20n	50m	1.0	-55	125	1	B0443	FP10
53	WM213G	4	11MΔ	MON			DTL	5	9†	0	8	60n			50m	550m*	-55	125	1	B0423	TO84
54	WM213Q	4	11MΔ	MON			DTL	5	9†	0	8	60n			50m	550m*	-55	125	1	B0423	TO91
55	WM213T	4	11MΔ	MON			DTL	5	9†	0	8	60n			50m	550m*	-55	125	1	B0423	CN18
56	RM213Q	4	11M%	MON	2.0	.30	DTL	7Δ	9†	0.0	8.0				50m		-55	125	1	B0423	FP46
57	SWF30F	4	12M	MON	1.7%	1.2*	TTL	6	15	0.0	8.0	20n			30m		-55	125	1	B0442	TO86
58	SWF30S	4	12M	MON	1.7%	1.2*	TTL	6	15	0.0	8.0	20n			30m		-55	125	1	B0442	CN52
59	SWF31F	4	12M	MON	1.7%	1.2*	TTL	6	7	0.0	8.0	20n			30m		-55	125	1	B0442	TO86
60	USN7474A	4	15MØ	MON	2.0%	.80*	TTL	4	10	0	7	50nΔ			20m	1.0 Δ	0	70	2	B04138a	TO116
61	USN7474J	4	15MØ	MON	2.0%	.80*	TTL	4	10	0	7	50nΔ			20m	1.0 Δ	0	70	2	B04138a	TO88
62	USS5474A	4	15MØ	MON	2.0%	.80*	TTL	4	10	0	7	50nΔ			20m	1.0 Δ	-55	125	2	B04138	TO116
63	USS5474J	4	15MØ	MON	2.0%	.80*	TTL	4	10	0	7	50nΔ			20m	1.0 Δ	-55	125	2	B04138	TO88
64	RF30P	4	15M†	MON	3.4	.20	TTL	4	15	0	5				30m†	1.1	-55	125	1		M105k
65	RF31P	4	15M†	MON	3.4	.20	TTL	4	7	0	5				30m†	1.1	-55	125	1		M105k
66	RF32P	4	15M†	MON	3.4	.20	TTL	4	12	0	5				30m†	1.1	0	75	1		M105k
67	RF33P	4	15M†	MON	3.4	.20	TTL	4	6	0	5				30m†	1.1	0	75	1		M105k
68	CS729J	4	18M†Ø	MON	3.1%	.35†*	DTL	6	7	8	8			75n	30m	1.0 Δ	-55	125		B0419e	TO88
69	US729J	4	18M†	MON	3.1%	.35†*	DTL	6	7	8	8						-55	125		B0419e	TO88
70	CS704G	4	18M†Ø	MON	3.9%	.4†*	DTL	5	8	8	8				150m	1.0 Δ	-55	125	1	B0449a	ZB105
71	CS704K	4	18M†Ø	MON	3.9%	.4†*	DTL	5	8	8	8				150m	1.0 Δ	-55	125	1	B0449a	CN17
72	NE124A	4	18M†	MON	3.9%	.45*†	DTL	5	7	0	6.2	145nΔ			28m†		0	70	1	B0419f	TO116
73	NE124G	4	18M†	MON	3.9%	.45†*	DTL	5	7	0	6		15n	15n	250m	1.0 Δ	0	70	1	B0419a	TO91
74	NE124J	4	18M†	MON	3.9%	.45*†	DTL	5	7	0	6.2	145nΔ			28m†		0	70	1	B0419d	TO88
75	NE124K	4	18M†	MON	3.9%	.45†*	DTL	5	7	0	6		15n	15n	250m	1.0 Δ	0	70	1	B0419a	CN17
76	SE124G	4	18M†Ø	MON	3.9%	.45†*	DTL	5	8	8	8		15n	15n	250m	1.0 Δ	-55	125	1	B0419d	TO91
77	SE124J	4	18M†Ø	MON	3.9%	.45†*	DTL	5	7	8	8		15n	15n	250m	1.0 Δ	-55	125	1	B0419d	TO88
78	SE124K	4	18M†Ø	MON	3.9%	.45†*	DTL	5	8	8	8		15n	15n	250m	1.0 Δ	-55	125	1	B0419d	CN17
79	NC8	4	20M	MOH	5.0	0.0	RCT		5	0.0	12	12n	30n	20n	200m		-55	125	1	B0461	CN45
80	NC8H	4	20M	MOH	5.0	0.0	RCT		5	0.0	12	12n	30n	20n	200m		-55	125	1	B0461	FP8c
81	PC8	4	20M	MOH	5.0	0.0	RCT		5	0	12	12n	30n	20n	200m		-55	125	1	B0461	FP8c
82	PC13	4	20M	MOH	5.0	0.0	RCT		5	0	12	12n	30n	20n	200m		-55	125	1	B0462	FP8
83#	9950-1	4	20MΔ	MON	2.6	.4*†	DTL	6	20	0	8				28m		-55	125	1	B0492	
84#	D950-1R	4	20MΔ	MON	2.6	.40†*	DTL	6	20	0.0	8.0				28m†		-55	125	1	B0492	M54a
85#	D950-1U	4	20MΔ	MON	2.6	.40†*	DTL	6	20	0.0	8.0				28m†		-55	125	1	B0492	TO86
86#	9950-9	4	20MΔ	MON	2.8	.45*†	DTL	6	20	0	8				28m		0	75	1	B0492	
87#	D950-9R	4	20MΔ	MON	2.8	.45†*	DTL	6	20	0.0	8.0				28m†		0	75	1	B0492	M54a
88#	D950-9U	4	20MΔ	MON	2.8	.45†*	DTL	6	20	0.0	8.0				28m†		0	75	1	B0492	TO86
89	6F20G	4	20M	MON	3.3	.26	TTL	9	15	0	5	20n	5.0n	8.0n	40m	900m	-55	125	1	B0441	TO84
90	6F20K	4	20M	MON	3.3	.26	TTL	9	15	0	5	20n	5.0n	8.0n	40m	900m	-55	125	1	B0441	TO116
91	6F21G	4	20M	MON	3.3	.26	TTL	9	7	0	5	20n	5.0n	8.0n	40m	900m	-55	125	1	B0441	TO84
92	6F21K	4	20M	MON	3.3	.26	TTL	9	7	0	5	20n	5.0n	8.0n	40m	900m	-55	125	1	B0441	TO116
93	6F22D	4	20M	MON	3.3	.26	TTL	9	12	0	5	20n	5.0n	8.0n	40m	900m	0	75	1	B0441	TO116
94	6F22G	4	20M	MON	3.3	.26	TTL	9	12	0	5	20n	5.0n	8.0n	40m	900m	0	75	1	B0441	TO84
95	6F23D	4	20M	MON	3.3	.26	TTL	9	6	0	5	20n	5.0n	8.0n	40m	900m	0	75	1	B0441	TO116
96	6F23G	4	20M	MON	3.3	.26	TTL	9	6	0	5	20n	5.0n	8.0n	40m	900m	0	75	1	B0441	TO84
97	SF20#1	4	20M	MON	3.3	.26	TTL	9	15	0.0	5.0	20n	5.0n	8.0n	40m	900m	-55	125	1	B0441	FP18
98	SF20#2	4	20M	MON	3.3	.26	TTL	9	15	0.0	5.0	20n	5.0n	8.0n	40m	900m	-55	125	1	B0441	M75
99	SF21#1	4	20M	MON	3.3	.26	TTL	9	7	0.0	5.0	20n	5.0n	8.0n	40m	900m	-55	125	1	B0441	FP18
100	SF21#2	4	20M	MON	3.3	.26	TTL	9	7	0.0	5.0	20n	5.0n	8.0n	40m	900m	-55	125	1	B0441	M75
101	SF22#1	4	20M	MON	3.3	.26	TTL	9	12	0.0	5.0	20n	5.0n	8.0n	40m	900m	0	75	1	B0441	FP18
102	SF22#2	4	20M	MON	3.3	.26	TTL	9	12	0.0	5.0	20n	5.0n	8.0n	40m	900m	0	75	1	B0441	M75
103	SF23#1	4	20M	MON	3.3	.26	TTL	9	6	0.0	5.0	20n	5.0n	8.0n	40m	900m	0	75	1	B0441	FP18
104	SF23#2	4	20M	MON	3.3	.26	TTL	9	6	0.0	5.0	20n	5.0n	8.0n	40m	900m	0	75	1	B0441	M75
105	RD221	4	20M	MON	3.3	.40†	DTL	3	8	0	5.5	18n			24m	1.2	-55	125	2	B04124	TO84
106	RD321	4	20M	MON	3.3	.40†	DTL	3	8	0	5.5	18n			24m	1.2	-55	125	2	B04124	TO84
107	RF20D	4	20M†	MON	3.4	.20	TTL	9	15	0	5				30m†	1.1	-55	125	1	B0441	M105m
108	RF20K	4	20M†	MON	3.4	.20	TTL	9	15	0	5				30m†	1.1	-55	125	1	B0441	FP21b
109	RF20P	4	20M†	MON	3.4	.20	TTL	9	15	0.0	5.0				30m†	1.1	-55	125	1		M105k
110	RF21D	4	20M†	MON	3.4	.20	TTL	9	7	0.0	5.0				30m†	1.1	-55	125	1	B0441	M105m

4. BINARY OR FLIP - FLOP

IN ORDER OF (1) FLIP-FLOP (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	TYPE No.	TYPE OF FLIP-FLOP	MAX OPERATING FREQ.	PROCESS	LOGIC			FAN		POWER SUPPLY SPAN		PROPAGATION DELAY	MAX.		MAX. TOTAL PKG. DISS.	MAX. NOISE REJECT	TEMP.		CKT PER MOD	DRAWINGS	
	6	1	2 (Hz)	3	LEVEL 4 '1' (V)	LEVEL 5 '0' (V)	TYPE	IN	OUT MAX.	NEG (V)	POS (V)	(s)	RISE TIME tr (s)	FALL TIME tf (s)	(W)	(V)	LOW °C	HI °C		LOGIC DWG. No	OUTLINE DWG. No Δ=MO
1	RF21K	4	20M†	MON	3.4	.20	TTL	9	7	0.0	5.0				30m†	1.1	-55	125	1	B0441	FP21b
2	RF21P	4	20M†	MON	3.4	.20	TTL	9	7	0.0	5.0				30m†	1.1	-55	125	1		M105k
3	RF22D	4	20M†	MON	3.4	.20	TTL	9	12	0.0	5.0				30m†	1.1	0	75	1	B0441	M105m
4	RF22K	4	20M†	MON	3.4	.20	TTL	9	12	0.0	5.0				30m†	1.1	0	75	1	B0441	FP21b
5	RF22P	4	20M†	MON	3.4	.20	TTL	9	12	0.0	5.0				30m†	1.1	0	75	1		M105k
6	RF23D	4	20M†	MON	3.4	.20	TTL	9	6	0.0	5.0				30m†	1.1	0	75	1	B0441	M105m
7	RF23K	4	20M†	MON	3.4	.20	TTL	9	6	0.0	5.0				30m†	1.1	0	75	1	B0441	FP21b
8	RF23P	4	20M†	MON	3.4	.20	TTL	9	6	0.0	5.0				30m†	1.1	0	75	1		M105k
9	RF50P	4	20M†	MON	3.4	.20	TTL	6	15	0	5				50m†	1.1	-55	125	1		M105k
10	RF51P	4	20M†	MON	3.4	.20	TTL	6	7	0	5				50m†	1.1	-55	125	1		M105k
11	FF8317E	4	20M	TFH	5.0	2.0	RCT	3	4	0	8	8.0n	15n	5.0n	96m	1.5	-55	125	1	B0466	
12	FF8327E	4	20M	TFH	5.0	2.0	RCT	3	4	0	8	8.0n	15n	5.0n	96m	1.5	-55	125	1	B0466	
13	1264B	4	25M%Δ	MON	3.0	0.0	DTL	5	8	8.0	8.0				100m		-55	125	1	B04109	FP19
14	2264B	4	25M%Δ	MON	3.0	0.0	DTL	5	8	8.0	8.0				100m		-55	125	1	B04109	CN41
15	4201	4AC	500k	PCB	0.0	-3.0	RCT	6	19	15	10	1.4u	100n	100n	1.4	500m	-20	55	1	B0455	CB30
16	FF634	4B	100k	PCB	-6.0	0.0	RCT	12	6	12	12	1.0u	1.0u	2.0u	600m	1.5 Δ	-45	65	3	B043	CB1
17	FF643	4B	100k	PCB	-6.0	0.0	RCT	8	6	12	12	1.0u	1.0u	2.0u	850m	1.5 Δ	-45	65	4	B042	CB1
18	4209	4B	500k	PCB	0.0	-3.0	RCT	6	14	15	10	1.4u			1.8	500m	-20	55	2	B0456	CB30
19	FF734	4B	500k	PCB	-6.0	0.0	RCT	12	6	12	12	500n	350n	350n	1.0	1.5 Δ	-45	65	3	B043	CB1
20	FF743	4B	500k	PCB	-6.0	0.0	RCT	8	6	12	12	500n	350n	350n	1.3	1.5 Δ	-45	65	4	B042	CB1
21	4217	4B	1.0M	PCB	0.0	-3.0	RCT	4	6	15	10		90n	130n	1.4	500m	-20	55	4	B0457	CB30
22	FF834	4B	2.0M	PCB	-6.0	0.0	RCT	12	5	12	12	75n	90n	110n	1.1	1.5 Δ	-45	65	3	B043	CB1
23	FF843	4B	2.0M	PCB	-6.0	0.0	RCT	8	5	12	12	75n	90n	110n	1.4	1.5 Δ	-45	65	4	B042	CB1
24	PL9913-21	4B	8.0M	MON	.75%	.45*	RTL	4	3	0	3	100nΔ			15m†		-55	125	1	B0452	ZB155
25	PL9913-23	4B	8.0M	MON	.75%	.45*	RTL	4	3	0	3	100nΔ			15m†		0	75	1	B0452	ZB155
26	FF934	4B	10M	PCB	-6.0	0.0	RCT	12	4	12	12	25n	26n	30n	2.2	1.5 Δ	-45	65	3	B043	CB1
27	FF943	4B	10M	PCB	-6.0	0.0	RCT	8	4	12	12	25n	26n	30n	2.8	1.5 Δ	-45	65	4	B042	CB1
28	1201	4CE	5.0M	PCB	0.0	-3.0	RCT	6	19	15	10	70n	20n	30n	986m	500m	-20	55	1	B0455	CB30
29	1204	4CE	5.0M	PCB	0.0	-3.0	RCT	6	19	15	10	70n	20n	30n	1.7	500m	-20	55	2	A0479	CB3
30	1209	4CE	5.0M	PCB	0.0	-3.0	RCT	6	19	15	10	70n	20n	30n	1.7	500m	-20	55	2	B0456	CB30
31	SN5111	4E		MON	.30	2.3	RCT	5	20	0.0	6.0	300n	500n	2.5u	8.0m	200m	-55	125	1	B0472a	TO84
32	US0101A	4E	100k	MON	3.8%	.30*†	RCT	4	20	0.0	8.0	350n	225n	2.0u	7.0m		-55	125	1	B0459a	TO89
33	US0101B	4E	100k	MON	3.8%	.30*†	RCT	4	20	0.0	8.0	350n	225n	2.0u	7.0m		-55	125	1	B0459a	TO90
34	USR0101A	4E	100k	MON	3.8%	.30*†	RCT	4	20	0.0	8.0	350n	225n	2.0u	7.0		-55	125	1	B0459a	FP22
35	USR0101B	4E	100k	MON	3.8%	.30*†	RCT	4	20	0.0	8.0	350n	225n	2.0u	7.0		-55	125	1	B0459a	FP23
36	U5B991328	4F		MON			RTL	4	6	0.0	3.6	15n					15	55	1	B0452	TO99
37	U5B991329	4F		MON			RTL	4	6	0.0	3.6	15n					0	70	1	B0452	TO99
38	U5F991328	4F		MON			RTL	4	6	0.0	3.6	15n					15	55	1	B0452	TO100
39	U5F991329	4F		MON			RTL	4	6	0.0	3.6	15n					0	70	1	B0452	TO100
40	U8A991328	4F		MON			RTL	4	6	0.0	3.6	15n					15	55	1	B0452	CN34
41	U8A991329	4F		MON			RTL	4	6	0.0	3.6	15n					0	70	1	B0452	CN34
42	US0913D	4F		MON			RTL	4	5	0	8	30n⍁			250m		-55	125	1	B0452	TO78
43	US0913E	4F		MON			RTL	4	5	0.0	8.0	30n⍁			250m		-55	125	1	B0452	TO91
44	SN511A	4F		MON	.30	2.5	RCT	4	24	0.0	8.0	350n	225n	2.0u	7.0m	500m	-55	125	1		TO84
45	SP302B	4F		MON	1.0Δ	.22	RTL	6Δ	4	0	8	30n			45m	320m	0	70	1	B04130	TO100
46	SP352B	4F		MON	1.0Δ	.22	RTL	6Δ	4	0	8	30n			45m	320m	0	70	1	B04130	FP2
47	DTL394551	4F		MON	2.6%	.40*†	DTL	7	20	0.0	8.0	75nΔ			48m	500m	-55	125	1	B04129	FP28
48	DTL394851	4F		MON	2.6%	.40*†	DTL	7	18	0.0	8.0	75nΔ			52m	500m	-55	125	1	B04129	FP28
49	DTL694551	4F		MON	2.6%	.40*†	DTL	7	20	0.0	8.0	75nΔ			48m	500m	-55	125	1	B04129	M54
50	DTL694851	4F		MON	2.6%	.40*†	DTL	7	18	0.0	8.0	75nΔ			52m	500m	-55	125	1	B04129	M54
51	MC931G	4F		MON	2.6%	.40*	DTL	6	14	0	8	40n			55m†		-55	125	1	B0487a	TO100
52	MC831F	4F		MON	2.6%	.45*	DTL	7	14	0	8	40n			55m†		0	75	1	B0487	TO86
53	MC831G	4F		MON	2.6%	.45*	DTL	6	14	0	8	40n			55m†		0	75	1	B0487a	TO100
54	MC831P	4F		MON	2.6%	.45*	DTL	7	14	0	8	40n			55m†		0	75	1	B0487	TO116
55	WC945D	4F		MON	2.6%	.45	DTL	7	12	0	8	40n			60m†		0	75	1	B04129	M126b
56	WC948D	4F		MON	2.6%	.45	DTL	7	11	0	8	40n			70m†		0	75	1	B04129a	M126b
57	DTL394559	4F		MON	2.8%	.45*†	DTL	7	20	0.0	8.0	75nΔ			48m	500m	0	75	1	B04129	FP28
58	DTL394859	4F		MON	2.8%	.45*†	DTL	7	18	0.0	8.0	75nΔ			52m	500m	0	75	1	B04129	FP28
59	DTL694559	4F		MON	2.8%	.45*†	DTL	7	20	0.0	8.0	75nΔ			48n	500m	0	75	1	B04129	M54
60	DTL694859	4F		MON	2.8%	.45*†.	DTL	7	18	0.0	8.0	75nΔ			52m	500m	0	75	1	B04129	M54
61	1001-004	4F		PCB	8.5	0.0		6	6	15	15		2.0u	500n			-55	85	4	B0436	
62	1001-004A	4F		PCB	8.5	0.0		7†	6	15	15		2.0u	500n			-55	85	4	B0436	
63	DBFF1016	4F		PCM	6.0%	1†*	CTL	12	10	6	12	62nΔ	55n	33n					1	B0450	M52
64	DCFF1016	4F		PCM	6.0%	1†*	CTL	12	10	6	12	62nΔ	55n	33n					1	B0450	CB29
65	B892003	4F		3DM			RTL	5		6	6	1.1u	700n	1.7u			-20	60	1	B0421	M4
66	13A	4F	10k%	3DM	0.0	12Δ	RTL		-8	6.0	24	4.0u	1.5u	2.0u	300m	750mΔ	-10	70	1	B04128	ZB38
67	B892001	4F	100k	3DM			RTL	5		6.0	6.0	800n	300n	2.0u			-20	60	1	B047	M4
68	B892002	4F	100k	3DM			RTL	5		6.0	6.0	1.1u	700n	1.7u			-20	60	1	B048	M4
69	EM5002	4F	100k	3DM	0.0	-5.0	DTL	4	10	6.0	6.0	250n	380n	2.2u	60m	2.0	-55	70	1	B0476	M62a
70	MF20	4F	200k	PCB	-6.0	0.0	DTL	3	12	18	12	1.2uΔ	500n†	800n†	1.0	1.5 *	-20	55	4	B0494	CB13a
71	UF20	4F	200k	PCB	-6.0	0.0	DTL	13	12	18	12	1.2uΔ	500n†	800n†	900m	1.5 *	-20	55	2	B0495	CB13a
72	GFF3-2	4F	200k	PCB	-10	0.0	RCT	5	9	12	6.0	200n	1.0u	500n	804m	2.0	0	55	4	B0481	
73	GFF3-.2	4F	200k	PCB	-10	0.0	RCT	5	9	12	6.0	200n	1.0u	500n	804m	2.0	0	55	4	B0471	CB15
74	FF5713B	4F	200k	3DM	5.0Δ	2.0	RTL	4	6	0.0	15	200n%	300n	100n	5.0m	2.9	-55	125	1		M57
75	FF5723B	4F	200k	3DM	5.0Δ	2.0	RTL	4	6	0.0	15	200n%	300n	100n	5.0m	2.9	-55	125	1		M57a
76	1040-0012	4F	200k	3DM	-6.0	0.0		3		18	18						0	55		B0437	M26a
77	EM2501	4F	250k	3DM	0.0	-6.0	DTL	6	10	12	6.0	180n	300n	1.0u	200m	2.0	-55	71	2	B0475	M62a
78	FC17	4F	300k	PCB	8.0	0.0	DTL	15	11	25	25	150n%	90n	60n	2.4	3.9	-55	100	4	B0480	CB34
79	403	4F	300k	PCB	-6.8	0.0	DTL	16	8	12	12				1.8		0	55	1		CB24
80	403#	4F	300k	PCB	-6.8	0.0	DTL	16	8	12	12				1.8		0	55	1		CB24
81	DBFF1016ZA	4F	1.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	0	50	1	B0450	M52
82	DBFF1016ZAN	4F	1.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	0	50	1	B0450	MP52a
83	DBFF1016ZB	4F	1.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-20	75	1	B0450	M52
84	DBFF1016ZBN	4F	1.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-20	75	1	B0450	MP52a
85	DBFF1016ZC	4F	1.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-40	100	1	B0450	M52
86	DBFF1016ZCN	4F	1.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-40	100	1	B0450	MP52a
87	DBFF1016ZD	4F	1.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-55	125	1	B0450	M52
88	DBFF1016ZDN	4F	1.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-55	125	1	B0450	MP52a
89	DCFF1016ZA	4F	1.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	0	50	1	B0450	CB29
90	DCFF1016ZB	4F	1.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-20	75	1	B0450	CB29
91	DCFF1016ZC	4F	1.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-40	100	1	B0450	CB29
92	DCFF1016ZD	4F	1.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-55	125	1	B0450	CB29
93	UC503	4F	1.0M	PCB	0.0	6.0	DTL		3	12	12		200n	100n	586m		-55	125	2	B0431	CB16
94	UF130	4F	1.0M	PCB	6.0	0.0	DTL	9Δ	12	12	18				1.3	1.5 *	-55	100	2	B0493	CB13a
95	FH17	4F	1.0M	PCB	8.0	0.0	DTL	10	10	25	25	100n%	65n	35n	4.1	3.9	-55	100	4	B0480	CB34
96	8070	4F	1.0M	PCB	-4.4.	0.0	RTL	14†	6	20	20	100n	50n	100n	2.5	1.4	0	55	4	B044	CB2
97	MF30	4F	1.0M	PCB	-6.0	0.0	DTL	3	12	18	12	250nΔ	100n†	150n†	1.8	1.5 *	-20	55	4	B0494	CB13a
98	UF30	4F	1.0M	PCB	-6.0	0.0	DTL	13	12	18	12	250nΔ	100n†	150n†	1.3	1.5 *	-20	55	2	B0495	CB13a
99	GFF3-1	4F	1.0M	PCB	-10	0.0	RCT	5	8	12	6.0	100n	250n	200n	960m	2.0	0	55	4	B0471	CB15
100	FF6714C	4F	1.0M	TFH	5.0Δ	2.0	RCT	1	5	0	15	50n%	80n	30n	25m	2.0	-55	125	1		M57
101	FF6724C	4F	1.0M	TFH	5.0Δ	2.0	RCT	1	5	0	15	50n%	80n	30n	25m	2.0	-55	125	1		M57a
102	FF5514B	4F	1.0M	3DM	5.0Δ	2.0	RTL	4	6	0	12	50n%	80n	30n	25m	2.9	-55	125	1		M57
103	FF5524B	4F	1.0M	3DM	5.0Δ	2.0	RTL	4	6	0	12	50n%	80n	30n	25m	2.9	-55	125	1		M57a
104	EM2601	4F	2.0M	3DM	0.0	-6.0	DTL	6	10	12	6	40n	32n	70n	350m	2.0	-55	71	1	B0475	M62a
105	FF5414B	4F	2.0M	3DM	5.0Δ	2.0	RTL	4	6	0	9	30n%	60n	20n	133m	2.9	-55	125	1		M57
106	FF5424B	4F	2.0M	3DM	5.0Δ	2.0	RTL	4	6	0	9	30n%	60n	20n	133m	2.9	-55	125	1		M57a
107	DBFF1016YA	4F	5.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	0	50	1	B0450	M52
108	DBFF1016YAN	4F	5.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	0	50	1	B0450	MP52a
109	DBFF1016YB	4F	5.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-20	75	1	B0450	M52
110	DBFF1016YBN	4F	5.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-20	75	1	B0450	MP52a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. BINARY OR FLIP - FLOP

IN ORDER OF (1) FLIP-FLOP (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF FLIP-FLOP	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	DBFF1016YC	4F	5.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-40	100	1	B0450	M52
2	DBFF1016YCN	4F	5.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-40	100	1	B0450	MP52a
3	DBFF1016YD	4F	5.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-55	125	1	B0450	M52
4	DBFF1016YDN	4F	5.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-55	125	1	B0450	MP52a
5	DCFF1016YA	4F	5.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	0	50	1	B0450	CB29
6	DCFF1016YB	4F	5.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-20	75	1	B0450	CB29
7	DCFF1016YC	4F	5.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-40	100	1	B0450	CB29
8	DCFF1016YD	4F	5.0M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-55	125	1	B0450	CB29
9	F003	4F	5.0M		7.0	.50	DTL	6		6.0	6.0	2.5n	5.0u	5.0u	250m	500m	-55	125	1	B0435	M19a
10	MF35	4F	5.0M	PCB	-6.0	0.0	DTL	3	8	18	12	50nΔ	25n†	50n†	2.5	1.5 *	-20	55	4	B0494	CB13a
11	UF35	4F	5.0M	PCB	-6.0	0.0	DTL	13	8	18	12	50nΔ	25n†	50n†	1.8	1.5 *	-20	55	2	B0495	CB13a
12	GFF3-5	4F	5.0M	PCB	-10	0.0	RCT	5	12	12	6.0	60n	50n	50n	1.4	1.5	0	55	4	B0471	CB15
13	FF6515C	4F	5.0M	TFH	5.0Δ	2.0	RCT	1	5	0	12	20n%	40n	15n	25m	2.0	-55	125	1		M57
14	FF6525C	4F	5.0M	TFH	5.0Δ	2.0	RCT	1	5	0	12	20n%	40n	15n	25m	2.0	-55	125	1		M57a
15	MWuL913	4F	8.0M	MON	1.1	.20	RTL	4	6	0.0	8.0	100n			12m	250m	-55	125	1	B0452	FP126
16	DBFF1016XA	4F	10M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	0	50	1	B0450	M52
17	DBFF1016XAN	4F	10M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	0	50	1	B0450	MP52a
18	DBFF1016XB	4F	10M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-20	75	1	B0450	M52
19	DBFF1016XBN	4F	10M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-20	75	1	B0450	MP52a
20	DBFF1016XC	4F	10M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-40	100	1	B0450	M52
21	DBFF1016XCN	4F	10M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-40	100	1	B0450	MP52a
22	DBFF1016XD	4F	10M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-55	125	1	B0450	M52
23	DBFF1016XDN	4F	10M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-55	125	1	B0450	MP52a
24	DCFF1016XA	4F	10M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	0	50	1	B0450	CB29
25	DCFF1016XB	4F	10M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-20	75	1	B0450	CB29
26	DCFF1016XC	4F	10M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-40	100	1	B0450	CB29
27	DCFF1016XD	4F	10M		6.0	1.0†	CTL	12	10	6.0	12	62n	55n	33n		350m	-55	125	1	B0450	CB29
28	SW931F	4F	10M	MON	2.6	.40	DTL	5	9	0.0	8.0				35m	700m	-55	125	1	B0467	TO86
29	SW931S	4F	10M	MON	2.6	.40	DTL	5	9	0.0	8.0				35m	700m	-55	125	1	B0467	CN9a
30	SW945/948F	4F	10M	MON	2.6	.40	DTL	5	10†	0.0	8.0				45m	700m	-55	125	1	B0467	TO86
31	SW945/948S	4F	10M	MON	2.6	.40	DTL	5	10	0.0	8.0				45m	700m	-55	125	1	B0467	CN9a
32	FT10	4F	10M	PCB	4.0	0.0	DTL	6	28	0	8	60nΔ			1.8		5	71	6	B0497	CB37a
33	FT12	4F	10M	PCB	4.0	0.0	DTL	4	28	0	8	60nΔ			2.2		5	71	8	B0498	CB37a
34	FT43	4F	10M	PCB	4.0	0.0	DTL	9	14	0	8	70n	5.0n	5.0n	890m	1.5	5	71	6		CB37a
35	FF6415C	4F	10M†	TFH	5.0Δ	2.0	RCT	1	5	0	9	12n%	30n	10n	50m	2.0	-55	125	1		M57
36	FF6425C	4F	10M†	TFH	5.0Δ	2.0	RCT	1	5	0	9	12n%	30n	10n	50m	2.0	-55	125	1		M57a
37#	SP202B	4F	15MΔ†	MON	.84Δ	.22	RTL	4Δ	3	0.0	8.0	90nΔ			15m†	320m	0	70	1	B04130a	CN23a
38#	SP204B	4F	15M†	MON	.84Δ	.22	RTL	2	6	0.0	8.0	90nΔ			30m†	320m	0	70	1	B038e	CN23a
39	SP252B	4F	15M†	MON	.84Δ	.22	RTL	4Δ	3	0	8	90nΔ			15m	320m	0	70	1	B04130a	FP2
40	SP254B	4F	15M†	MON	.84Δ	.22	RTL	2	6	0	8	90nΔ			30m	320m	0	70	1	B038e	FP2
41	SWF20	4F	20M%	MON	3.5	.26	TTL	8	15	0.0	6.0	24n	5.0n	8.0n	35m	1.0	-55	125	1	B0468	TO86
42	SWF21	4F	20M%	MON	3.5	.26	TTL	8	7	0.0	6.0	24n	5.0n	8.0n	35m	1.0	-55	125	1	B0468	TO86
43	SWF22	4F	20M%	MON	3.5	.26	TTL	8	12	0.0	6.0	24n	5.0n	8.0n	35m	1.0	0	75	1	B0468	TO86
44	SWF23	4F	20M%	MON	3.5	.26	TTL	8	6	0.0	6.0	24n	5.0n	8.0n	35m	1.0	0	75	1	B0468	TO86
45	TFF3031	4F	20M%	MON	3.5	.26	TTL	4	7	0.0	6.0	15n			30m	1.0	15	55	1	B0477a	CN13a
46	FF6317C	4F	20M†	TFH	4.0Δ	1.5	RCT	1	4	0	8	8.0n%	20n	6.0n	100m	1.5	-55	125	1		M57
47	FF6327C	4F	20M†	TFH	4.0Δ	1.5	RCT	1	4	0	8	8.0n%	20n	6.0n	100m	1.5	-55	125	1		M57a
48	8200	4F	50M	TFH	.50	3.0	DTL	10	4	0	6	10n	20n	10n	170m		-55	125	1	B0415	M7
49	8200A	4F	50M	TFH	.50	3.0	DTL	4	4	0	6	10n	20n	10n	170m		-55	125	1	B0415	M7
50	8200B	4F	50M	TFH	.50	3.0	DTL	6	4	0	6	10n	20n	10n	170m		-55	125	1	B0415b	M7
51	8200C	4F	50M	TFH	.50	3.0	DTL	8	4	0	6	10n	20n	10n	170m		-55	125	1	B0415c	M7
52	TFF3115	4FG	20M	MON	3.0	.30	TTL	6	15	0.0	5.0	12n			75m	1.0 Δ	-55	125	1	B0446	TO116
53	TFF3116	4FG	20M	MON	3.0	.30	TTL	6	15	0.0	5.0	12n			75m	1.0 Δ	0	75	1	B0446	TO116
54	TFF3117	4FG	20M	MON	3.0	.30	TTL	6	7	0.0	5.0	12n			75m	1.0 Δ	-55	125	1	B0446	TO116
55	TFF3118	4FG	20M	MON	3.0	.30	TTL	6	7	0.0	5.0	12n			75m	1.0 Δ	0	75	1	B0446	TO116
56	RC301Q	5							5	0.0	3.0	25n			12m	300m			1		TO78
57	RC301T	5							5	0.0	3.0	25n			12m	300m			1		TO84
58#	9906-1-5B	5		MON			RTL	3	8	0.0	3.0				36m†		-55	125	1	B0530	TO99
59	U5B990528	5		MON			RTL	3	42	0.0	3.6	15n				250m	15	55	1	B0531	TO99
60	U5B990529	5		MON			RTL	3	42	0.0	3.6	15n				250m	0	70	1	B0531	TO99
61	U5F990528	5		MON			RTL	3	42	0.0	3.6	15n				250m	15	55	1	B0531	TO100
62	U5F990529	5		MON			RTL	3	42	0.0	3.6	15n				250m	0	70	1	B0531	TO100
63	U8A990528	5		MON			RTL	3	42	0.0	3.6	15n				250m	15	55	1	B0531	CN34
64	U8A990529	5		MON			RTL	3	42	0.0	3.6	15n				250m	0	70	1	B0531	CN34
65	111AE	5		MON	.80	.25	TTL	5	5	0	3	12n			118m	300m	-55	125	1	B051	CN12
66	111AH	5		MON	.80	.25	TTL	5	5	0	3	12n			118m	300m	-55	125	1	B051	FP28
67	111BE	5		MON	.80	.25	TTL	5	5	0	3	45n			118m	265m	-55	125	1	B051	
68	111BH	5		MON	.80	.25	TTL	5	5	0	3	12n			118m	265m	-55	125	1	B051	FP28
69	111CE	5		MON	.80	.25	TTL	5	5	0	3	45n			118m	250m	0	70	1	B051	CN12
70	112AE	5		MON	.80	.25	TTL	5	10	0	3	45n			118m	300m	-55	125	1	B053	
71	112AH	5		MON	.80	.25	TTL	5	10	0	3	45n			118m	300m	-55	125	1	B053	
72	112BE	5		MON	.80	.25	TTL	5	5	0	3	45n			118m	265m	-55	125	1	B053	
73	112BH	5		MON	.80	.25	TTL	5	5	0	3	45n			118m	265m	-55	125	1	B053	
74	112CE	5		MON	.80	.25	TTL	5	5	0	3	45n			118m	250m	0	70	1	B053	CN11
75	113AE	5		MON	.80	.25	TTL	5	5	0	3	30n			118m	300m	-55	125	1	B055	CN12
76	113AH	5		MON	.80	.25	TTL	5	5	0	3	30n			118m	300m	-55	125	1	B055	FP28
77	113BE	5		MON	.80	.25	TTL	5	5	0	3	30n			118m	265m	-55	125	1	B055	
78	113BH	5		MON	.80	.25	TTL	5	5	0	3	30n			118m	265m	-55	125	1	B055	FP28
79	113CE	5		MON	.80	.25	TTL	5	5	0	3	30n			118m	250m	0	70	1	B055	CN12
80	114AE	5		MON	.80	.25	TTL	4	5	0	3	40n			68m	300m	-55	125	1	B054	CN12
81	114AH	5		MON	.80	.25	TTL	4	5	0	3	40n			68m	300m	-55	125	1	B054	FP28
82	114BE	5		MON	.80	.25	TTL	4	5	0	3	40n			68m	265m	-55	125	1	B054	
83	114BH	5		MON	.80	.25	TTL	4	5	0	3	40n			68m	265m	-55	125	1	B054	
84	114CE	5		MON	.80	.25	TTL	4	5	0	3	40n			68m	250m	0	70	1	B054	CN11
85	P11001	5		MON	.80	.25	TTL	5	10	0.0	3.0	30n			118m	300m	-55	125	1	B055	CN12
86	P11004	5		MON	.80	.25	TTL	5	5	0.0	3.0	30n			118m	250m	0	70	1	B055	CN12
87	P11008	5		MON	.80	.25	TTL	5	5	0.0	3.0	30n			118m	265m	-55	125	1	B055	CN12
88	P41001	5		MON	.80	.25	TTL	5	10	0.0	3.0	30n			118m	300m	-55	125	1	B055	FP26c
89	P41008	5		MON	.80	.25	TTL	5	5	0.0	3.0	30n			118m	265m	-55	125	1	B055	FP26
90	R11001	5		MON	.80	.25	TTL	5	10	0.0	3.0	45n			118m	300m	-55	125	1	B051	CN12
91	R11004	5		MON	.80	.25	TTL	5	5	0.0	3.0	45n			118m	250m	0	70	1	B051	CN12
92	R11008	5		MON	.80	.25	TTL	5	5	0.0	3.0	45n			118m	265m	-55	125	1	B051	CN12
93	R11014	5		MON	.80	.25	TTL	6	10	0.0	3.0	45n			118m	300m	-55	125	1	B052	CN12
94	R41001	5		MON	.80	.25	TTL	5	10	0.0	3.0	45n			118m	300m	-55	125	1	B051	FP26c
95	R41008	5		MON	.80	.25	TTL	5	5	0.0	3.0	45n			118m	265m	-55	125	1	B051	FP26
96	R41014	5		MON	.80	.25	TTL	6	10	0.0	3.0	45n			118m	300m	-55	125	1	B052	FP26c
97	T11001	5		MON	.80	.25	TTL	5	10	0.0	3.0	45n			118m	300m	-55	125	1	B053	CN12
98	T11004	5		MON	.80	.25	TTL	5	5	0.0	3.0	45n			118m	250m	0	75	1	B053	CN11
99	T11008	5		MON	.80	.25	TTL	5	5	0.0	3.0	45n			118m	265m	-55	125	1	B053	CN11
100	T41001	5		MON	.80	.25	TTL	5	10	0.0	3.0	45n			118m	300m	-55	125	1	B053	FP26
101	T41008	5		MON	.80	.25	TTL	5	5	0.0	3.0	45n			118m	265m	-55	125	1	B053	FP26
102	U11004	5		MON	.80	.25	TTL	4	5	0.0	3.0	40n			68m	250m	0	70	1	B054	CN11
103	U11008	5		MON	.80	.25	TTL	4	5	0.0	3.0	40n			68m	265m	-55	125	1	B054	CN10
104	U41008	5		MON	.80	.25	TTL	4	5	0.0	3.0	40n			68m	265m	-55	125	1	B054	CN10
105#	SP209B	5		MON	.84Δ	.22	RTL	1	3	0.0	8.0	120nΔ			15m†	320m	0	70	2	B056b	CN23a
106#	SP212B	5		MON	.84	.22	RTL	2	6	0.0	8.0	120nΔ			40m†	320m	0	70	1	B0541	CN23a
107	SP259B	5		MON	.84Δ	.22	RTL	1	3	0	8	120nΔ			15m	320m	0	70	2	B056b	FP2
108	SP262B	5		MON	.84	.22	RTL	2	6	0	8	120nΔ			35m	320m	0	70	1	B0541	FP2
109	PL913#1	5		MON	.90	.15	RTL	4	6	0.0	3.0				15m		-55	125	1	B056	CN13
110	PL913#2	5		MON	.90	.15	RTL	4	6	0.0	3.0				15m		-55	125	1	B056	FP2

4. BINARY OR FLIP - FLOP

IN ORDER OF (1) FLIP-FLOP (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF FLIP-FLOP	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	PL984	5		MON	.90	.15	RTL	4	4	0.0	4.0	30n			15m		-55	125	1	B056	FP2
2	PL9913	5		MON	.90	.15	RTL	4	6	0.0	3.0				15m		-55	125	1	B056	
3	PL9984	5		MON	.90	.15	RTL	4	4	0.0	4.0	30n			15m		-55	125	1	B056	FP2
4	PL906#1	5		MON	1.0	.15	RTL	3	8	0.0	3.0				43m		-55	125	1	B059	CB13
5	PL906#2	5		MON	1.0	.15	RTL	3	8	0.0	3.0				43m		-55	125	1	B059	FP2
6	PL9906	5		MON	1.0	.15	RTL	3	8	0.0	3.0				43m		-55	125	1	B059	
7	FuL90529	5		MON	1.1	.25	RTL	3	26	0.0	3.6	20n			80m	300m	15	55	1		TO99
8	uL906#1	5		MON	1.1	.25	RTL	3	8	0.0	12	12n			43m		-55	125	1	B0530	TO70
9	uL906#2	5		MON	1.1	.25	RTL	3	8	0.0	12	12n			43m		0	100	1	B0530	CN34
10	PE9097-59	5		MON	3.1	.45	DTL	4	20	0.0	5.0	75n			100m	1.0	0	75	2	B0545	M131
11	PE9099-59	5		MON	4.0	.45	DTL	4	18	0.0	5.0	65n			100m	1.0	0	75	2	B0545	M131
12	T654	5	12k		-3.0	-11	DTL	6	3	12	0	1.0u	1.0u	1.0u	60m		-45	65			
13	DC01CSFF4	5	20k	PCB	6.0	0.0		3	4	12	12	500n	1.0u	1.0u		1.0	-55	100	4	B038	
14	DC01CSXFF4	5	20k	PCB	6.0	0.0		3	4	12	12	500n	1.0u	1.0u		1.0	-55	100	4	B038	
15	DC01CFF4	5	20k	PCB	-6.0	0.0		3	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	4	B038	
16	DC01CXFF4	5	20k	PCB	-6.0	0.0		3	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	4	B038	
17	DC1CFF3	5	100k	PCB	-6.0	0.0		7	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	2		
18	DC1CFF4	5	100k	PCB	-6.0	0.0		3	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	4		
19	FF11-2	5	100k	3DM	-10	0.0	DTL	5	3	12	12	100n	150n	300n	130m	2.0	-35	65	1		M15
20	T664	5	125k	PCB	11	3.0	DTL	8	2	12	0	1.0u	1.0u	2.0u	120m		-45	65	1	B0542	M16
21	11G137	5	200k	PCB	8.2	0.0		22		0	28	200n	200n					85	1	B0537	CB49
22	SR352	5	250k	PCM	0.0	-6.0	DTL	4	8	12	6.0	140n⍁	150n	500n	2.0	2.0	-55	71	8		CB36
23	SR353	5	250k	PCM	0.0	-6.0	DTL	4	8	12	6.0	140n⍁	150n	500n	1.5	2.0	-55	71	6		CB36
24	408	5	300k	PCB	-6.8	0.0	DTL	2	2	12	12		200n	500n	2.0		0	55	5		CB24
25	MP106	5	500k	MON	-10Δ	-6.5	MOS	3		30	0.0				30m	1.0	-55	125	1	B0540	TO100
26	PM9243	5	500k	3DM	-6.5	0.0				18	6.0								1		ZB37
27	MS08	5	1.0M	PCB	6.2	0.0	DTL	2	2	18	18	100n	100n	100n	2.5	2.5 *	-30	100	4		CB25
28	SR320	5	2.0M	MOH	6.3	0.0	DTL	11†	8	0.0	6.0	120nΔ			2.2		0	55	2		CB13
29	SR321	5	2.0M	MOH	6.3	0.0	DTL	11	8	0.0	6.0	120nΔ			1.2		0	55	1		CB13
30	DC2CSFF3	5	2.0M	PCB	6.0	0.0		7	6	18	18	50n	150n	250n		1.2	-55	100	2		
31	DC2CSFF4	5	2.0M	PCB	6.0	0.0		3	6	18	18	50n	150n	250n		1.2	-55	100	4		
32	DC2CFF3	5	2.0M	PCB	-6.0	0.0		7	6	18	18	50n	150n	250n		1.2	-55	55	2		
33	DC2CFF4	5	2.0M	PCB	-6.0	0.0		3	6	18	18	50n	150n	250n		1.2	-55	55	4		
34	SR332	5	2.0M	PCM	0.0	6.0	DTL	4	6	6	12	35n⍁	50n	70n	2.3	2.0	-55	125	8		CB36
35	SR333	5	2.0M	PCM	0.0	6.0	DTL	4	6	6	12	35n⍁	50n	70n	1.7	2.0	-55	125	6		CB36
36	SR362	5	2.0M	PCM	0.0	-6.0	DTL	4	8	12	6	40n⍁	32n	70n	2.8	2.0	-55	71	8		CB36
37	SR363	5	2.0M	PCM	0.0	-6.0	DTL	4	8	12	6	40n⍁	32n	70n	2.1	2.0	-55	71	6		CB36
38	PM8583	5	2.0M	3DM	-6.5	0.0				18	6								1		ZB37
39	PM8793	5	2.0M	3DM	-6.5	0.0				18	6								1		ZB37
40	FF21-2	5	2.0M	3DM	10	0.0	DTL	5	3	12	12	20n	50n	30n	75m	2.0	-35	125	1	B0336b	M16
41	WM205T,Q	5	3.7M	MON			DTL	2	2	0.0	8.0	220n			8.4m	550m*	-55	125	1		ZB73
42	545BE	5	4.0M	MON			TTL	3		0	4	70n			1.0m†		-55	125	1		
43	545BH	5	4.0M	MON			TTL	3		0	4	70n			1.0m†		-55	125	1		
44	D16701	5	4.0M	MON			TTL	3		0.0	4.0	70n			1.0m		-55	125	1		TO100
45	D46701	5	4.0M	MON			TTL	3		0.0	4.0	70n			1.0m		-55	125	1		FP26a
46	SR335	5	5.0M	MOH	6.3*	1.1*	DTL	12		0	6.3	60nΔ			2.4	1.3	0	55	8		CB13
47	HBH25101	5	6.0M	MOH	4.0%	.40†*	DTL	6	16	0.0	8.0	65n			500m		-55	125	1	B0544	FP28
48	HBH25109	5	6.0M	MOH	4.0%	.40†*	DTL	6	20	0.0	8.0	65n			500m		0	70	1	B0544	FP28
49	HBW25101	5	6.0M	MOH	4.0%	.40†*	DTL	6	16	0.0	8.0	65n			500m		-55	125	1	B0544	TO101
50	HBW25109	5	6.0M	MOH	4.0%	.40†*	DTL	6	20	0.0	8.0	65n			500m		0	70	1	B0544	TO101
51	PL9988	5	6.0M	MON	.85%	.42*	TTL	8	3	0	3	185n%			2.2m†		-55	125	1	B0543	TO86
52	2NB1005	5	10M	MON	.81	.21	RTL	3	13	0.0	4.0	28n	28n	28n	53m	355m	-55	125	1	B0531	CN19
53	2NB1006	5	10M	MON	.81	.21	RTL	2	13	0.0	4.0	28n	28n	28n	36m	355m	-55	125	1	B0530	CN19
54	2NB2005	5	10M	MON	.84	.25	RTL	3	13	0.0	4.0	28n	28n	28n	53m	293m	0	100	1	B0531	CN19
55	2NB2006	5	10M	MON	.84	.25	RTL	2	13	0.0	4.0	28n	28n	28n	36m	293m	0	100	1	B0530	CN19
56	2NB4005	5	10M	MON	.84	.25	RTL	3	13	0.0	4.0	28n	28n	28n	53m	293m	0	75	1	B0531	CN19
57	2NB4006	5	10M	MON	.84	.25	RTL	2	13	0.0	4.0	28n	28n	28n	36m	293m	0	75	1	B0530	CN19
58	2NB3005	5	10M	MON	.91	.25	RTL	3	13	0.0	3.6	28n	28n	28n	53m	250	15	65	1	B0531	CN19
59	2NB3006	5	10M	MON	.91	.25	RTL	2	13	0.0	3.6	28n	28n	28n	36m	251	15	65	1	B0530	CN19
60	DC10CFF3	5	10M	PCB	-6.0	0.0		7	4	18	18	25n	50n	80n		1.2	-55	55	2		
61	DC10CFF4	5	10M	PCB	-6.0	0.0		3	4	18	18	25n	50n	80n		1.2	-55	55	4		
62	DC50CSFF3	5	50M	PCB	3.0	0.0		7	4	12	12	9.0n	7.0n	10n		1.0	-10	100	2		
63	DC50CSFF4	5	50M	PCB	3.0	0.0		3	4	12	12	9.0n	7.0n	10n		1.0	-10	100	4		
64	1213	5B	3.0M	PCB	0.0	-3.0	RCT	1	2	15	10	20n	80n	80n	1.5	500m	-20	55	4		CB30
65	PL905#1	5C		MON	1.0	.15	RTL	3	13	0.0	3.0				64m		-55	125	1	B0531	CN13
66	PL905#2	5C		MON	1.0	.15	RTL	3	13	0.0	3.0				64m		-55	125	1	B0531	FP2
67	PL9905	5C		MON	1.0	.15	RTL	3	13	0.0	3.0				64m		-55	125	1	B0531	
68	DBFF1026	5F		PCM	6.0%	1.0†*	CTL	7	10	6.0	12	50nΔ	64n	20n					1	B0539	M52
69	DCFF1026	5F		PCM	6.0%	1†*	CTL	7	10	6	12	50nΔ	64n	20n					1	B0539	CB29
70	T604	5F	250k	3DM	-3.0	-11	DTL	7		12	0.0	400n	1.0u		88m	1.5	-45	65	1	B0514	M17
71	T629	5F	250k	3DM	-3.0	-11	DTL	7		12	0.0	400n	1.0u		88m	1.5	-45	65	1	B0514	M17
72	405	5F	300k	PCB	-6.8	0.0	DTL	2	2	12	12		200n	500n	1.6		0	55	1		CB24
73	418	5F	300k	PCB	-6.8	0.0	DTL	2	2	12	12		200n	500n	1.4		0	55	1	B0529	CB24
74	SFF2Z	5F	1.0M	PCB	0.0	-6.0	DTL	8	9	15	6	150nΔ	200n	200n	850m	1.5	0	50	3	B0510	CB14
75	CT301A3	5F	1.0M	PCB	-3.0	-11	DTL	4		12	0.0	200n	200n	500n	395m		-55	71	3		CB16
76	CT801A2	5F	1.0M	PCB	-3.0	-11	RCT	7		12	0.0	200n	200n		264m		-45	65	2		CB16
77	SFF2M	5F	1.0M	3DM	0.0	-6.0	DTL	8	9	15	6.0	150nΔ	200n	200n	229m	1.5	0	50	1	B0510a	
78	T301A	5F	1.0M	3DM	-3.0	-11	DTL	4		12	0	200n	200n		132m	1.5	-45	65	1	B0518	M17
79	T801A	5F	1.0M	3DM	-3.0	-11	RCT	7		12	0	200n	200n		132m		-45	65	1	B0516	M17
80	F001	5F	5.0M		4.0	.40	DTL	4		0.0	6.0		3.0u	3.0u	85m		0	125	2	B0521	M19d
81	uL905#1	5G		MON	1.1	.25	RTL	3	13	0.0	12	12n			64m		-55	125	1	B0531	TO70
82	uL905#2	5G		MON	1.1	.25	RTL	3	13	0.0	12	12n			64m		0	100	1	B0531	CN34
83	409	5R	300k	PCB	-6.8	0.0	DTL	2	2	12	12		200n	500n	2.1		0	55	5		CB24
84#	5475-1-6B	6		MON	2.0%	.80*	TTL	4	10	0.0	5.0	15n			160m†	1.0 Δ	-55	125		B0613	M153
85#	7475-9-6B	6		MON	2.0%	.80*	TTL	4	10	0.0	5.0				160m†	1.0	0	70		B0613	M153
86	DM8550D	6		MON	2.0%	.80*	TTL	2	10	0	7	40nΔ			250m	1.0	0	70	4	B0613	M146
87	HDD945R	6		MON	3.1%	.40*	DTL	7	15	0.0	8.0	85nΔ			70m	350m*	-55	125	1	B0395	TO86
88	FF11-3	6	100k	3DM	-10	0.0	DTL	3	3	12	12	100n	150n	300n	130m	2.0	-35	65	1	B069a	M15
89	CT102A4	6	250k	PCB	-3.0	-11	RCT	3		12	0.0	400n	1.0u	2.0u	240m	1.5	-45	65	4		CB16
90	T647	6	250k	3DM	-3.0	-11	DTL	5		12	0.0	400n	1.0u	2.0u	450m	1.5	-45	65	1	B063	M17
91	MC1125G	6	1.0M	MOS	-12%	-2.0*†		1		15	0.0				75m†	1.0	0	75	4	B0624	CN57
92	9040-1-3I	6	2.5MΔ	3DM			DTL	7	10	0.0	5.0	60n†			4.0mΔ	450m	-55	125	1	B0619	FP32
93	9041-1-3I	6	2.5MΔ	3DM			DTL	3	10	0.0	5.0	60n†			4.0mΔ	450m	-55	125	2	B0620	FP32
94	CT303-2	6	5.0M	PCB	-3.0	-11	DTL	4		12	0.0	100n	60n	500n	440m	1.5	-45	65	2	B064	CB16
95	T303	6	5.0M	3DM	-3.0	-11	DTL	3		12	0	100n	60n	500n	220m	1.5	-45	65	1	B065	M17
96	MM10343	6	10M*	3DM	1.5%		DTL	1	1	6	18		40n		615m		-55	125	1	B0610	M66a
97	PM10343	6	10M*	3DM	1.5%		DTL	1	1	6	18		40n		615m		-55	125	1	B0610	M67
98	WM10343	6	10M*	3DM	1.5%		DTL	1	1	6	18		40n		615m		-55	125	1	B0610	M66
99	FF1713B	6F	200k	3DM	5.0Δ	2.0	RTL	4	6	0.0	15	200n%	300n	100n	5.0m	2.9	-55	125	1		M57
100	FF1723B	6F	200k	3DM	5.0Δ	2.0	RTL	4	6	0.0	15	200n%	300n	100n	5.0m	2.9	-55	125	1		M57a
101	FF3714C	6F	1.0M	TFH	5.0Δ	2.0	RCT	1	5	0	15	50n%	80n	30n	5.0m	2.0	-55	125	1		M57
102	FF3724C	6F	1.0M	TFH	5.0Δ	2.0	RCT	1	5	0	15	50n%	80n	30n	5.0m	2.0	-55	125	1		M57a
103	FF1514B	6F	1.0M	3DM	5.0Δ	2.0	RTL	4	6	0	12	50n%	80n	30n	25m	2.9	-55	125	1	B068	M57
104	FF1524B	6F	1.0M	3DM	5.0Δ	2.0	RTL	4	6	0	12	50n%	80n	30n	25m	2.9	-55	125	1	B068	M57a
105	FF1414B	6F	2.0M	3DM	5.0Δ	2.0	RTL	4	6	0	9	30n%	60n	20n	133m	2.9	-55	125	1	B068	M57
106	FF1424B	6F	2.0M	3DM	5.0Δ	2.0	RTL	4	6	0	9	30n%	60n	20n	133m	2.9	-55	125	1	B068	M57a
107	9040-1-6A	6F	2.5MΔ	3DM			DTL	7	10	0	5.5	60n†			4.0mΔ	450m	-55	125	1	B0619	M54
108	FF3515C	6F	5.0M	TFH	5.0Δ	2.0	RCT	1	5	0.0	12	20n%	40n	15n	25m	2.0	-55	125	1	B068a	M57
109	FF3525C	6F	5.0M	TFH	5.0Δ	2.0	RCT	1	5	0	12	20n%	40n	15n	25m	2.0	-55	125	1	B068a	M57a
110#	SP203B	6F	10MΔØ	MON	.84Δ	.22	RTL	6Δ	3	0.0	8.0	90nΔ			17m†	320m	0	70	1	B0622	CN23a

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

4. BINARY OR FLIP - FLOP

IN ORDER OF (1) FLIP-FLOP (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF FLIP-FLOP	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	FF3415C	6F	10M†	TFH	5.0Δ	2.0	RCT	1	5	0	9	12n%	30n	10n	50m	2.0	-55	125	1	B068a	M57
2	FF3425C	6F	10M†	TFH	5.0Δ	2.0	RCT	1	5	0	9	12n%	30n	10n	50m	2.0	-55	125	1	B068a	M57a
3	FF3317C	6F	20M†	TFH	4.0Δ	1.5	RCT	1	4	0	8	8.0n%	20n	6.0n	100m	1.5	-55	125	1		M57
4	FF3327C	6F	20M†	TFH	4.0Δ	1.5	RCT	1	4	0	8	8.0n%	20n	6.0n	100m	1.5	-55	125	1		M57a
5	6202	7A	10M	PCB	0.0	-3.0	RCT	6	18	15	10	15n	8.0n	20n	1.3	500m	-20	55	1	B073	CB30
6	6207	7C	10M	PCB	0.0	-3.0	RCT	4	19	15	10	15n	10n	20n	2.6	500m	-20	55	2	B074	CB30
7	6208	7C	10M	PCB	0.0	-3.0	RCT	5	14	15	10	15n	15n	15n	2.6	500m	-20	55	2	B072	CB30
8	EM5001	7F	100k	3DM	0.0	-5.0	DTL	2	8	6.0	6.0	550n	460n	3.0u	82m	2.0	-55	70	1	B075	M62a
9	404	7F	300k	PCB	-6.8	0.0	DTL	15	10	12	12				2.0m		0	55	1		CB24
10	SD3732	8					RTL	4		0.0	3.6	120nΔ			25m		0	75	1	B086a	CN☐
11	PD7475	8			2.0%	.80*	TTL	4	10	0.0	5.0	40nΔ			160m†	1.0	0	75	2	B0613	M200a
12	RF3220P	8		MON			TTL	1	11	0	5					1.1	-55	125	3		M105k
13	RF3222P	8		MON			TTL	1	9	0	5					1.1	0	75	3		M105k
14#	SP10130L	8		MON	-.96%	-1.6*†	ECT	5†		5.2	0.0						0	75	2	B0825a	M191
15#	T110B1-16	8		MON	1.8%	.85*	TTL	4	10	0.0	5.0	50nΔ			120m%	400m	0	75	2	B0827	M200
16#	T110D1-16	8		MON	1.8%	.85*	TTL	4	10	0.0	5.0	50nΔ			120m%	400m	0	75	2	B0827	M200
17#	FJJ391	8		MON	2.0%	.80*		5	10	0.0	5.0	66nΔ			230m†	1.0 Δ	0	70	1	B0855	M117q
18	SD370BG	8		MON	6.5%	5.0*	DTL	2		0.0	12	160n%					-55	125	4	B0617	CN50
19	SD370BJ	8		MON	6.5%	5.0*	DTL	2		0.0	12	160n%					-55	125	4	B0617	M172
20	SD370CG	8		MON	6.5%	5.0*	DTL	2		0.0	12	160n%					-30	100	4	B0617	CN50
21	SD370CJ	8		MON	6.5%	5.0*	DTL	2		0.0	12	160n%					-30	100	4	B0617	M172
22	370BG	8		MON	12	.30†	DTL	2	5	0.0	12	250nΔ			760m	4.5	-55	125	4	B0617	CN69
23	370BJ	8		MON	12	.30†	DTL	2	5	0.0	12	250nΔ			760m	4.5	-55	125	4	B0617	M172
24	370BN	8		MON	12	.30†	DTL	2	5	0.0	12	250nΔ			760m	4.5	-55	125	4	B0617	M204
25	370CG	8		MON	12	.30†	DTL	2	5	0.0	12	220nΔ			760m	4.5	-35	80	4	B0617	CN69
26	370CN	8		MON	12	.30†	DTL	2	5	0.0	12	220nΔ			760m	4.5	-35	80	4	B0617	M204
27	RDT54H74R	8	40 %	MON	2.4%	.40*	TTL	4	10	0.0	8	25nΔ			110mΔ	1.0	-55	125	2	BO85	TO86
28	MC2598G	8	2.0M†%	MOS	9.9%	.01*†		4		0.0	10	300n	400n	200n	10u%	4.5 Δ	-55	125	1	B0826	CN57
29	MC14013L	8	3.6MΔ	MOS	9.99%	.01†*		4	50	0.0	10	385nΔ	5.0u	5.0u	20u%		-55	125	2	B0829	M157a
30	CD4013E	8	3.6MΔ	MOS	10	0.0†	TTL	4	50	0.0	10	385nΔ			200u%	45	-40	80	2	B0830	Δ001AC
31	CD4013	8	3.6MΔ	MOS	10	.01*†	TTL	4	50	0.0	10	190n%	5.0u	5.0u	20u%	45 †	-55	125	2	B0823	Δ004AF
32	CD4013D	8	3.6MΔ	MOS	10	.01*†	TTL	4	50	0.0	10	190n%	5.0u	5.0u	20u%	45 †	-55	125	2	B0823	Δ001AD
33	SCL4013D	8	3.6MΔ	MOS	10	.01*†	TTL	4	50	0.0	10	1.6uΔ	5.0u	5.0u	20u%	45 †	-55	125	2	B0830	TO116
34	SCL4013F	8	3.6MΔ	MOS	10	.01*†	TTL	4	50	0.0	10	1.6uΔ	5.0u	5.0u	20u%	45 †	-55	125	2	B0830	TO86
35	MC2503L	8	4.0M†	MOS	9.99%	.010*†		4	50	0	10		330n	220n	20m%		-55	125	2	B0829	M157a
36	CD4003	8	4.0M%	MOS	10†	.01†*	TTL	2	50	0	10	190n	5.0u	5.0u	.02m%		-55	125	2	B0812	FP44a
37	CD4003D	8	4.0M%	MOS	10†	.01†*	TTL	2	50	0	10	190n	5.0u	5.0u	.02m%		-55	125	2	B0812	M135
38	DM7510D	8	15M%	MON	2.0%	.80*	TTL	4	10	0	5.0	45nΔ			130m	1.0	-55	125	2		M146
39	PD7474	8	15MΔØ	MON	2.0%	.80*	TTL	4	20	0.0	5.0	50nΔ			43mΔ	1.0	0	75	2	B085	M105v
40#	5474-1-6A	8	20M%	MON	2.0%	.80*	TTL	4	10	0.0	5.0	40nΔ			40m†		-55	125	2	B0816	M157
41#	7474-9-6A	8	20M%	MON	2.0%	.80*	TTL	4	10	0.0	5.0	40nΔ			40m†		0	70	2	B0816	M157
42	WC7474D	8	25M%	MON	2.0%	.80*	TTL	4	20	0.0	7.0	24n%			43mΔ	1.0	0	75	2	B085	M126b
43	HDT54H74R	8	40M%	MON	2.4%	.40*	TTL	4	10	0.0	8.0	25nΔ			110mΔ	1.0	-55	125	2	B085	TO86
44	TFF3512F	8	50M%	MON	3.0%	.4†*	TTL	9	15	0	7	25n			150m†	1.0 Δ	0	75	1	B083	FP21c
45	TFF3512P	8	50M%	MON	3.0%	.4†*	TTL	9	15	0	7	25n			150m†	1.0 Δ	0	75	1	B083	TO116
46	TFF3514F	8	50M%	MON	3.0%	.4†*	TTL	9	15	0	7	25n			150m†	1.0 Δ	0	75	1	B083	FP21c
47	TFF3514P	8	50M%	MON	3.0%	.4†*	TTL	9	15	0	7	25n			150m†	1.0 Δ	0	75	1	B083	TO116
48	RF3230P	8	60M†	MON			TTL		11	0	5					1.1	-55	125	2		M105k
49	RF3232P	8	60M†	MON			TTL		9	0	5					1.1	0	75	2		M105k
50	MC1022L	8	80M	MON	-.75	-1.6	ECT	6	25	8	0	8.0n	10n	11n	110m†	175m	0	75	1	B087	TO116
51	10130E	8	150M		-.96	-1.8	ECT	1	90	5.2	0.0	3.0n	4.5n	4.5n	270m	400m	-30	85			M153a
52#	SP10131L	8	150M†%	MON	-.96%	-1.6*†	ECT	5†	70	5.2	0.0	3.0n	2.0n†	2.0n†	225m†		0	75	2	B0833	M191
53	10131E	8	160M		-.96	-1.8	ECT	1	90	5.2	0.0	2.8n	4.5n	4.5n	270m	400m	-30	85			M153a
54	MC1034L	8	205M†	MON	-.85	-1.5	ECT	5	25	5.2	0.0	4.0n	4.0n	5.0n	240m†		0	75	1	B0814	TO116
55	MC1070S	8	350M%	MON	-.8%	-1.7*	ECT	5	90	8	0				190m†	250m	0	75	1	B0811	FP78
56	MC942F	8B		MON	2.6%	.40*†	DTL	9	6	0.0	5.0	40n			110m†		-55	125	2	B0813	TO86
57	MC842F	8B		MON	2.6%	.45*†	DTL	9	6	0.0	5.0	40n			110m†		0	75	2	B0813	TO86
58	MC842P	8B		MON	2.6%	.45*†	DTL	9	6	0.0	5.0	40n			110m†		0	75	2	B0813	M114
59	MC418F	8F	20MΔ	MON	3.5	.20	TTL	10	12	0	7	20n			95m†	1.0	0	75	1	B089	TO85
60	MC418L	8F	20MΔ	MON	3.5	.20	TTL	10	12	0.0	6.0	20n			95m†	1.0	0	75	1	B089	TO116
61	MC418P	8F	20MΔ	MON	3.5	.20	TTL	10	12	0.0	6.0	20n			95m†	1.0	0	75	1	B089	M114
62	MC468F	8F	20MΔ	MON	3.5	.20	TTL	10	6	0	7	20n			95m†	1.0	0	75	1	B089	TO85
63	MC468L	8F	20MΔ	MON	3.5	.20	TTL	10	6	0.0	6.0	20n			95m†	1.0	0	75	1	B089	TO116
64	MC468P	8F	20MΔ	MON	3.5	.20	TTL	10	6	0	7	20n			95m†	1.0	0	75	1	B089	M114
65	MC518F	8F	20MΔ	MON	3.5	.20	TTL	10	15	0	8	20n			95m†	1.0	-55	125	1	B089	TO85
66	MC518L	8F	20MΔ	MON	3.5	.20	TTL	10	15	0	8	20n			95m†	1.0	-55	125	1	B089	TO116
67	MC568F	8F	20MΔ	MON	3.5	.20	TTL	10	7	0	8	20n			95m†	1.0	-55	125	1	B089	TO85
68	MC568L	8F	20MΔ	MON	3.5	.20	TTL	10	7	0	8	20n			95m†	1.0	-55	125	1	B089	TO116

5. CLOCK OR MULTIVIBRATOR

IN ORDER OF (1) TYPE OF MV (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF M-V	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	MIN. DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (s)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	NC19		15M	MOH	5.0	0.0	RCT		5	0	12				200m		-55	125	1		
2	PC19		15M	MOH	5.0	0.0	RCT		5	0	12						-55	125	1		
3	F005-2	1			11	0.0	RCT			0.0	12				50m		-55	125	2	C011a	
4	F005-3	1			11	0.0	RCT			0.0	12				50m		-55	125	3	C011b	
5	GCG1-.2	1	200k	PCB	-10	0.0	RCT		15	12	6.0		1.0u	500n	540m		0	55	1	C013	CB15
6	EM2510	1	250k	3DM	0.0	-6.0	DTL	0		6.0	0		200n	1.0u	90m		-55	71	1	C016	M62
7	EM2510A	1	250k	3DM	0.0	-6.0	DTL	0		6.0	0		200n	1.0u	90m		-55	71	1	C016	M62
8	F005-1	1	1.0M		11	0.0	RCT			0.0	12				50m		-55	125	1	C011	
9	MS50	1	1.0M	PCB	6.2	0.0	DTL	8	14	18	18	60n	100n	100n	2.6	2.5 *	-30	100	1		CB25
10	GCG1-1	1	1.0M	PCB	-10	0.0	RCT		15	12	6.0		250m	200n	540m		0	55	1	C013	CB15
11	EM3010	1	2.0M	3DM	0.0	6.0	DTL	0		0	6.0		25n	80n	210m		-55	125	1	C0111	M62
12	EM2610	1	2.0M	3DM	0.0	-6.0	DTL	0		6.0	0		50n	95n	192m		-55	71	1	C016	M62
13	IMC2275	1	5.0M	PCB	2.5%	.40*	DTL	0	8	0	5.0					500m	0	75	1		CB51
14	GCG1-5	1	5.0M	PCB	-10	0.0	RCT		15	12	6.0		50n	50n	540m		0	55	1	C013	CB15
15	CG21-1	1	5.0M	3DM	9.0	0.0	DTL	1	5	12	12	10n	100n	30n	150m	2.0	-35	125	1	C013	M16
16	MV340	1	10M	PCB			DTL	8	12	6.0	6.0	30n			1.2		0	55	1	C0113	
17	T105A	1	250M		6.0	-6.0	DTL	2	2	12	0	1.0u	1.0u	1.0n	60m		-45	65			
18	CG333A	1A	2.0M	PCB	0.0	-6.0	DTL	3		6.0	12						-55	71	1	C018	CB36
19	CG363A	1A	2.0M	PCB	0.0	-6.0	DTL	3		12	6.0						-55	71	1	C018	CB36
20	GMV1-.2	1B	200k	PCB	-10	0.0	RCT		20	12	6.0	400m	1.0u	250n	840m		0	55		C015	CB15
21	GMV1-1	1B	1.0M	PCB	-10	0.0	RCT		15	12	6.0	200n	500n	200n	840m		0	55		C015	CB15
22	IP1H	1B	5.0M	MOH	0.0	5.0			12	0.0	5.0					1.0mΔ	0	100	1	C019	CB7
23	IP1M	1B	5.0M	MOH	0.0	5.0			12	0.0	5.0					1.0mΔ	0	70	1	C019	CB7
24	IP1L	1B	5.0M	PCB	0.0	5.0	DTL	3†	17	0	5.5		55n	55n	200m		0	55	1		CB7
25	IP1S	1B	5.0M	PCB	0.0	5.0	DTL	3†	17	0	5.5		55n	55n	200m		-40	85	1		CB7
26	MV601	1BC	100k	PCB	0.0	-6.0	RCT	1	6	12	12		1.0u	2.0u	250m	1.5uΔ	-45	65	1	C031	CB1
27	MV701	1BC	500k	PCB	0.0	-6.0	RCT	1	6	12	12		350n	350n	450m	1.5uΔ	-45	65	1	C031	CB1
28	MV801	1BC	2.0M	PCB	0.0	-6.0	RCT	1	5	12	12		90n	110n	600m	1.5uΔ	-45	65	1	C031	CB1
29	MV901	1BC	5.0M	PCB	0.0	-6.0	RCT	1	4	12	12		26n	30n	1.2u	1.5uΔ	-45	65	1	C031	CB1
30	MC50	1F	1.0M	PCB	0.0	-6.2	DTL	12	14	18	18	50n	100n	100n	2.6	2.5 *	0	55	1	C012	CB25
31	G323	2	100k	PCB	0.0	-6.0	RCT		4	12	6.0		600n	1.4u	300m		-55	71	1	C025b	CB16
32	GA323	2	100k	PCB	-6.0	0.0	RCT		4	12	6.0		600n	1.4u	300m		-55	71	1	C025b	CB16
33	CC11	2	100k	PCB	11	0.0		1	48	12	6.0				750m		-10	55	1	C028	CB33
34	2AMM	2	100k	PCB	-10	0.0	RCT		6	12	12				650m		0	50	2	C026	CB19
35	EM5011	2	125k	3DM	0.0	-6.0	DTL													C029	
36	CT104-2	2	325k	PCB	-3.0	-11	RCT	2		12	0.0		400n		132m	1.5	-45	65	2	C024	CB16
37	T104	2	325k	3DM	-3.0	-11	RCT	2		12	0		400n		66m	1.5	-45	65	1	C025	M17
38	G224	2	1.0M	PCB	0.0	-6.0	RCT	10	10	12	6.0		100n	300n	665m		-55	71	1	C025b	CB16
39	MV2Z	2	1.0M	PCB	0.0	-6.0	RCT	1	55	15	6.0		200n	200n	1.1	1.5	0	50	2	C022	CB14
40	GA224	2	1.0M	PCB	-6.0	0.0	RCT	10	10	12	6.0		100n	300n	665m		-55	71	1	C025b	CB16
41	MV2M	2	1.0M	3DM	0.0	-6.0	RCT	1	55	15	6.0		200n	200n	582m	1.5	0	50	1	C023	
42	UC504	2A	10M	PCB	0.0	6.5	RCT		3	12	12			100n	2.0		-55	125	1	C025b	CB16
43	PD74121	3		MON	2.0%	.80*	TTL	2	10	0.0	7.0	20n			33m†	1.0	0	75	1		TO116
44	DBMV1192	3		PCM	6.0%	1.0†*	DTL		10	6.0	12		90n	18n					1	C0312	M52
45	DCMV1192	3		PCM	6.0%	1.0†*	DTL		10	6.0	12		90n	18n					1	C0312	CB29
46	DC01MCM1	3	20k	PCM	0.0	-6.0			4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	1		
47	DC01MSCM1	3	20k	PCM	6.0	0.0			4	12	12	500	1.0u	1.0u		1.0	-55	100	1		
48	DC1MCM1	3	100k	PCM	0.0	-6.0			6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	1		
49	PM7013	3	150k	3DM	0.0	-6.5				18	0								1		ZB37
50	PM10533	3	150k	3DM	0.0	-18				18	0								1		ZB37
51	CG11-1	3	200k	3DM	-9.0	0.0	DTL	1	8	12	12	100n	200n	500n	45m	2.0	-35	65	1	C037	M15
52	MV210	3	250k	3DM	0.0	-6.0	RCT		4	12	0		400n	2.5u	180m		-54	71	1	C032	M2
53	MC3	3	300k	PCB	0.0	8.0	RCT		5	12	6.0		500n	1.0u	450m		-20	55	1		CB10
54	MC1	3	300k	PCB	0.0	-10	RCT		10	12	6.0		500n	1.0u	425m		-20	55	3	C035	CB10
55	PM7003	3	300k	3DM	0.0	-6.5				18	0								1		ZB37
56	4401	3	500k	PCB	2.5	0.0	RCT		8	15	0.0				675m		-20	55	1	C0319	CB30
57	MV310	3	500k	3DM	0.0	-6.0	RCT		4	0	12		150n	1.3u	200m	1.0	-25	125	1	C032a	M2
58	DBMV1192ZA	3	1.0M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	0	50	1	C0312	M52
59	DBMV1192ZAN	3	1.0M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	0	50	1	C0312	MP52a
60	DBMV1192ZB	3	1.0M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-20	75	1	C0312	M52
61	DBMV1192ZBN	3	1.0M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-20	75	1	C0312	MP52a
62	DBMV1192ZC	3	1.0M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-40	100	1	C0312	M52
63	DBMV1192ZCN	3	1.0M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-40	100	1	C0312	MP52a
64	DBMV1192ZD	3	1.0M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-55	125	1	C0312	M52
65	DBMV1192ZDN	3	1.0M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-55	125	1	C0312	MP52a
66	DCMV1192ZA	3	1.0M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	0	50	1	C0312	CB29
67	DCMV1192ZB	3	1.0M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-20	75	1	C0312	CB29
68	DCMV1192ZC	3	1.0M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-40	100	1	C0312	CB29
69	DCMV1192ZD	3	1.0M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-55	125	1	C0312	CB29
70	J001	3	1.0M		11	0.0	RCT			0.0	12				50m		-55	125	1		M19b
71	SMC1	3	1.0M	PCB	0.0	8.0	RCT		7	12	12		150n	250n	400m		-40	75	3	C035	CB10
72	SMC3	3	1.0M	PCB	0.0	8.0	RCT		7	12	12		150n	250n	425m		-40	75	1		CB10
73	U814	3	1.0M	3DM	0.0	6.5	DTL		3	12	12		30n	25n	469m		-55	125	1	C0315	M60
74	T314	3	1.0M	3DM	-3.0	-11	RCT			12	0		300n	200n	264		-54	71	1		M17
75	LCE205	3	2.0M	MOH	0.0†	-6.0				12	6.0	20n					-10	55	1		CN27
76	MC3A	3	2.0M	PCB	0.0	8.0	RCT		5	12	6.0		100n	250n	450m		-20	55	1		CB10
77	MC1A	3	2.0M	PCB	0.0	-10	RCT		7	12	6.0		100n	250n	425m		-20	55	3	C035	CB10
78	AS5505	3	2.0M	PCB	2.6%	.70*	DTL	1	6	0	5.0				350m		0	70	2		CB56
79	DC2MCM1	3	2.0M	PCM	0.0	-6.0			6	18	18	50n	150n	250n		1.2	-55	55	1		
80	DC2MSCM1	3	2.0M	PCM	6.0	0.0			6	18	18	50n	150n	250n		1.2	-55	100	1		
81	DBMV1192YA	3	5.0M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	0	50	1	C0312	M52
82	DBMV1192YAN	3	5.0M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	0	50	1	C0312	MP52a
83	DBMV1192YB	3	5.0M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-20	75	1	C0312	M52
84	DBMV1192YBN	3	5.0M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-20	75	1	C0312	MP52a
85	DBMV1192YC	3	5.0M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-40	100	1	C0312	M52
86	DBMV1192YCN	3	5.0M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-40	100	1	C0312	MP52a
87	DBMV1192YD	3	5.0M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-55	125	1	C0312	M52
88	DBMV1192YDN	3	5.0M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-55	125	1	C0312	MP52a
89	MV410	3	5.0M	3DM	0.0	-6.0	RCT		4	12	0		40n	150n	200m		-25	60	1	C032	M2
90	DBMV1192XA	3	10M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	0	50	1	C0312	M52
91	DBMV1192XAN	3	10M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	0	50	1	C0312	MP52a
92	DBMV1192XB	3	10M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-20	75	1	C0312	M52
93	DBMV1192XBN	3	10M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-20	75	1	C0312	MP52a
94	DBMV1192XC	3	10M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-40	100	1	C0312	M52
95	DBMV1192XCN	3	10M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-40	100	1	C0312	MP52a
96	DBMV1192XD	3	10M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-55	125	1	C0312	M52
97	DBMV1192XDN	3	10M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-55	125	1	C0312	MP52a
98	DCMV1192XA	3	10M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	0	50	1	C0312	CB29
99	DCMV1192XB	3	10M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-20	75	1	C0312	CB29
100	DCMV1192XC	3	10M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-40	100	1	C0312	CB29
101	DCMV1192XD	3	10M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-55	125	1	C0312	CB29
102	DCMV1192YA	3	10M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	0	50	1	C0312	CB29
103	DCMV1192YB	3	10M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-20	75	1	C0312	CB29
104	DCMV1192YC	3	10M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-40	100	1	C0312	CB29
105	DCMV1192YD	3	10M		6.0	1.0†	DTL		10	6.0	12		90n	18n		350m	-55	125	1	C0312	CB29
106	UC704	3	10M	PCB	0.0	6.5	DTL		3	12	12		35n	25n	2.6		-55	125	1	C038	CB16
107	6401	3	10M	PCB	2.5	0.0	RCT		8	15	0.0				2.8		-20	55	1	C0317	CB30
108	DC10MCM1	3	10M	PCM	0.0	-6.0			4	18	18	25n	50n	80n		1.2	-55	55	1		
109	8401	3	30M	PCB	-3.0	0.0	RCT			15	10						-20	55	1		CB30
110	DC50MSCM1	3	50M	PCM	3.0	0.0			4	12	12	9.0n	7.0n	10n		1.0	-10	100	1		

5. CLOCK OR MULTIVIBRATOR

IN ORDER OF (1) TYPE OF MV (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF M-V	2 MAX OPER-ATING FREQ. (Hz)	3 PRO-CESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	MIN. DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (s)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	DC1CCM1	3,2F	100k	PCM	0.0	-6.0		1	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	1		
2	DC2CCM1	3,2F	2.0M	PCM	0.0	-6.0		1	6	18	18	50n	150n	250n		1.2	-55	55	1		
3	DC2CSCM1	3,2F	2.0M	PCM	6.0	0.0		1	6	18	18	50n	150n	250n		1.2	-55	100	1		
4	MC31	3A	2.0M	PCB	3.0	0.0		8	30	0	4.0		210n	100n	112m	1.5	-40	70	1		
5	MC32	3A	2.0M	PCB	3.0	0.0	DTL	4	30	0	4.0		210n	100n	244m	1.5	-40	70	1		CB10a
6	450Δ	3B	300k	PCB	0.0	-6.8	DTL	3	2	12	12		200n	500n	1.6		0	55	1		CB24
7	CLO2	3BF	5.0M	PCB	1.9%	1.1*	DTL	3	8	0	5.0		100n	100n		1.0 Δ	0	70	1	C0322	
8	MV335	3CG	5.0M	MOH	6.3*	1.1*	DTL	4	1	0	6.3	45n			870m	1.3	0	55	1	C036	CB13
9	MV1514B	3G	1.0M	TFH			RTL		6	0	12					1.5	-55	125		C0316	ZB54
10	DBCO1171	4		PCM	6.0%	1.0†*	DTL		40	6	12		100n	40n					1	C0414	M52
11	DCCO1171	4		PCM	6.0%	1.0†*	DTL		40	6	12		100n	40n					1	C0414	CB29
12	B901	4	8.0k	PCB					1	12	0				96m		-15	45	1		CB35
13	B906	4	8.0k	PCB					1	0	12				430m		-20	60	1		CB35
14	B902	4	30k	PCB					1	12	0				96m		-15	45	1		CB35a
15	450X1	4	100k	PCB	0.0	-6.8	DTL	9	6	12	12				1.3		0	55	1		CB24
16	KG100M	4	100k	PCB	-10	0.0				12	12				375m		0	50	1	C0411	CB19
17	DC1MOS1	4	100k	PCM	0.0	-6.0			6	18	18		1.0u	3.0u		1.2	-55	55	1		
18	450X2	4	200k	PCB	0.0	-6.8	DTL	9	6	12	12				1.3		0	55	1		CB24
19	GCG2-.2	4	200k	PCB	-10	0.0	RCT		15	12	6.0		1.0u	500n	540m		0	55	1	C0420	CB15
20	450X3	4	300k	PCB	0.0	-6.8	DTL	9	6	12	12				19		0	55	1		CB24
21	450X	4	300k	PCB	0.0	-6.8	DTL	9	6	12	12				1.3		0	55	1		CB24
22	450XH	4	300k	PCB	0.0	-6.8	DTL	9	6	12	12				19		0	55	1		CB24
23	B903	4	400k	PCB					1	12	0				96m		-15	45	1		CB35a
24	B907	4	400k	PCB					1	0	12				430m		-20	60	1		CB35a
25	4407	4	500k	PCB	2.5	0.0	RCT		8	15	10				1.3		-20	55	1	C0415	CB30
26	DBCO1171ZA	4	1.0M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	0	50	1	C0414	M52
27	DBCO1171ZB	4	1.0M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-20	75	1	C0414	M52
28	DBCO1171ZC	4	1.0M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-40	100	1	C0414	M52
29	DBCO1171ZD	4	1.0M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-55	125	1	C0414	M52
30	DCCO1171ZA	4	1.0M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	0	50	1	C0414	CB29
31	DCCO1171ZB	4	1.0M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-20	75	1	C0414	CB29
32	DCCO1171ZC	4	1.0M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-40	100	1	C0414	CB29
33	DCCO1171ZD	4	1.0M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-55	125	1	C0414	CB29
34	MC50X	4	1.0M	PCB	0.0	-6.2	DTL	14	14	18	18		100n	100n	2.9	2.5 *	0	55	1		CB25
35	MC30,X	4	1.0M	PCB	6.0	0.0	DTL	2	34	18	12	120n	100n†	150n†	1.3	1.5 *	-20	55	1		CB13a
36	MC130	4	1.0M	PCB	6.0	0.0	DTL	2	24	12	18				1.3	1.5 *	-55	100	1		CB13a
37	MS50X	4	1.0M	PCB	6.2	0.0	DTL	13	14	18	18	350nΔ	100n		2.9	2.5 *	-30	100	1		CB25
38	GCG2-1	4	1.0M	PCB	-10	0.0	RCT		15	12	6.0		250n	200n	540m		0	55	1	C0420	CB15
39	KG1000H	4	1.0M	PCB	-10	0.0				12	12				425m		0	50	1	C0411	CB19
40	B904	4	2.0M	PCB					1	12	0				96m		-15	45	1		CB35
41	B908	4	2.0M	PCB					1	0	12				430m		-20	60	1		CB35
42	MC33X	4	2.0M	PCB	3.0	0.0	DTL	0	30	0	4.0		50n	50n	80m		-40	70	1		CB10a
43	DC2MOS1	4	2.0M	PCM	0.0	-6.0			6	18	18		150m	250n		1.2	-55	55	1		
44	DC2MSOS1	4	2.0M	PCM	6.0	0.0			6	18	18		150n	250n		1.2	-55	100	1		
45	6292	4	3.0M	TFH	5.0	-5.0											-55	100	1		
46	DBCO1171YA	4	5.0M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	0	50	1	C0414	M52
47	DBCO1171YB	4	5.0M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-20	75	1	C0414	M52
48	DBCO1171YC	4	5.0M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-40	100	1	C0414	M52
49	DBCO1171YD	4	5.0M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-55	125	1	C0414	M52
50	DCCO1171YA	4	5.0M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	0	50	1	C0414	CB29
51	DCCO1171YB	4	5.0M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-20	75	1	C0414	CB29
52	DCCO1171YC	4	5.0M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-40	100	1	C0414	CB29
53	DCCO1171YD	4	5.0M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-55	125	1	C0414	CB29
54	IXO2471	4	5.0M	PCB	2.0%	1.1*	TTL		8	0	5.0		3.0n	4.0n	125m	1.0	0	75	1		CB⍁
55	OB1104	4	5.0M	PCB	2.2%	.70*	DTL			0	5.0	50n					0	75	1		CB⍁
56	IXO-0234	4	5.0M	PCB	2.5%	.40*	DTL	0	8	0	5.0				100m	500m	0	75	1		CB51
57	IXO-0271	4	5.0M	PCB	2.5%	.40*	DTL	0	25	0	5.0				150m	500m	0	75	1		CB51
58	CO5509	4	5.0M	PCB	2.6%	.70*	DTL	3	8	0	5.0				250m		0	70	1	C0435	CB56
59	MC35,X	4	5.0M	PCB	6.0	0.0	DTL	2	24	18	12	120n	25n†	50n†	1.8		-20	55	1		CB13a
60	GCG2-5	4	5.0M	PCB	-10	0.0	RCT		15	12	6.0		50n	50n	540m		0	55	1	C0420	CB15
61	DBCO1171XA	4	10M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	0	50	1	C0414	CB29
62	DBCO1171XAN	4	10M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	0	50	1	C0414	MP52a
63	DBCO1171XB	4	10M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-20	75	1	C0414	M52
64	DBCO1171XBN	4	10M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-20	75	1	C0414	MP52a
65	DBCO1171XC	4	10M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-40	100	1	C0414	M52
66	DBCO1171XCN	4	10M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-40	100	1	C0414	MP52a
67	DBCO1171XD	4	10M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-55	125	1	C0414	M52
68	DBCO1171XDN	4	10M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-55	125	1	C0414	MP52a
69	DBCO1171YAN	4	10M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	0	50	1	C0414	MP52a
70	DBCO1171YBN	4	10M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-20	75	1	C0414	MP52a
71	DBCO1171YCN	4	10M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-40	100	1	C0414	MP52a
72	DBCO1171YDN	4	10M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-55	125	1	C0414	MP52a
73	DBCO1171ZAN	4	10M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	0	50	1	C0414	MP52a
74	DBCO1171ZBN	4	10M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-20	75	1	C0414	MP52a
75	DBCO1171ZCN	4	10M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-40	100	1	C0414	MP52a
76	DBCO1171ZDN	4	10M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-55	125	1	C0414	MP52a
77	DCCO1171XA	4	10M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	0	50	1	C0414	CB29
78	DCCO1171XB	4	10M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-20	75	1	C0414	CB29
79	DCCO1171XC	4	10M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-40	100	1	C0414	CB29
80	DCCO1171XD	4	10M		6.0	1.0†	DTL		40	6.0	12		100n	40n		350m	-55	125	1	C0414	CB29
81	DM340	4	10M	MOH	6.3	0.0	TTL	4	4	0.0	6.0				600m		0	55	4		CB13
82	DM341	4	10M	MOH	6.3	0.0	TTL	4	4	0.0	6.0				600m		0	55	4		CB13
83	MC340	4	10M	PCB			DTL	10	12	6.0	6.0	30n			1.2		0	55	1	C0431	
84	G510A	4	10M	PCB	0.0	-6.0	RCT		5	12	6.0		20n	50n	1.0		-20	71	1	C0433	CB16
85	6403	4	10M	PCB	2.5	0.0	RCT		8	15	0.0				900m		-20	55	1	C0415	CB30
86	GA510A	4	10M	PCB	-6.0	0.0	RCT		5	12	6.0		20n	50n	1.0		-20	71	1	C049b	CB16
87	CO1	4	10M	PCM	3.0	0.0					5.0		10n	10n			0	50	1		
88	CO409	4	10M	3DM	0.0	-6.0	RCT		4	12	12		40n	30n	200m		-25	60	1	C043	M2
89	S113353	4	30M	PCB	2.9%	.40*	TTL	0	8	0	5.0				125m	500	0	75	1		CB51
90	DC50MSOS1	4	50M	PCM	3.0	0.0			4	12	12		7.0n	10n		1.0	-10	100	1		
91	XC11	4,2	200k	PCB	11	0.0			48	12	6.0				580m		-10	55	1	C0419	CB33
92	XC21	4,2	2.0M	PCB	11	0.0			48	12	6.0				380m		-10	55	1	C0419	CB33
93	XC31	4,2	8.0M	PCB	11	0.0			24	12	6.0				860m		-10	55	1	C0419	CB33
94	MC1X	4A	300k	PCB	0.0	-10	RCT		10	12	6.0		500n	1.0u	500m		-20	55	1	C045	CB10
95	SMCX	4A	900k	PCB	0.0	8.0	RCT		7	12	12		150n	250n	450m		-40	75	1		CB10
96	MCX	4A	900k	PCB	0.0	-10	RCT		10	12	6.0		100n	250n.	475m		-20	55	1		CB10
97	SMC1X	4A	1.5M	PCB	0.0	8.0	RCT		7	12	12		150n	250n	475m		-40	75	1	C045	CB10
98	CG333B	4A	2.0M	PCB	0.0	-6.0	DTL	3		6.0	12						-55	71	1	C0421	CB36
99	CG363B	4A	2.0M	PCB	0.0	-6.0	DTL	3		12	6.0						-55	71	1	C0421	CB36
100	MC1AX	4A	2.0M	PCB	0.0	-10	RCT		7	12	6.0		100n	250n	500m		-20	55	1	C045	CB10
101	MC335	4A	5.0M	MOH	6.3*	1.1*	DTL	4	2	0	6.3	45n			680m	1.3	0	55	1	C047	CB13
102	MC2X	4A	5.0M	PCB	0.0	-10	RCT		7	12	6.0		50n	150n	500m	1.5 Δ	-20	55	1	C045	CB10
103	CL12	4A	10M	PCB	8.0	0.0	DTL	1	30	25	25				5.6		-55	100	1	C0417	CB34
104	XC601	4AB	100k	PCB	0.0	-6.0	RCT		6	12	12	0.0	1.0u	2.0u	700m	1.5 Δ	-45	65	1	C041	CB1
105	XC701	4AB	500k	PCB	0.0	-6.0	RCT		6	12	12	0.0	350n	350n	900m	1.5 Δ	-45	65	1	C041	CB1
106	XC801	4AB	2.0M	PCB	0.0	-6.0	RCT		5	12	12	0.0	90n	110n	1.7	1.5 Δ	-45	65	1	C041	CB1
107	XC901	4AB	10M	PCB	0.0	-6.0	RCT		4	12	12	0.0	26n	30n	2.3	1.5 Δ	-45	65	1	C041	CB1
108	DC1CCG1	4B	100k	PCM	0.0	-6.0			6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	4		
109	DC2CCG1	4B	2.0M	PCM	0.0	-6.0			6	18	18	50n	150n	250n		1.2	-55	55	4		
110	DC2CSCG1	4B	2.0M	PCM	6.0	0.0			6	18	18	50n	150n	250n		1.2	-55	100	4		

5. CLOCK OR MULTIVIBRATOR

IN ORDER OF (1) TYPE OF MV (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF M-V	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	MIN. DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (s)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	CL01	4B	5.0M	PCB	2.5%	.45*	DTL	5Δ		0	5.0		30n	25n			0	70	1	C0428	
2	DC50CSG1	4B	50M	PCM	3.0	0.0			4	12	12	9.0n	7.0n	10n		1.0	-10	100	4		
3	CX13	4C	1.2	PCB	8.0	0.0	DTL		6	25	25				1.8		-55	100	1	C0418	CB34
4	CX14	4C	1.2	PCB	8.0	0.0	DTL		6	25	25				6.8		-55	100	1	C0418	CB34
5	XCG200	4E	1.0M%	PCB	10	40	RCT		9	6.0	12			80n	2.5		-55	100	1	C048	CB15
6	FE9951-59	5		MON	3.2	.45	DTL	3Δ	10	0.0	5.0	40n			37m	1.0	0	75	1	J0545	M131
7	PM10551	5	700	3DM						28	0								1		ZB37
8	PM10541	5	4.0k	3DM						28	0								1		ZB37
9	CX18	5E	10k	PCB	8.0	0.0			14	25	25				950m		-20	70	1		CB34
10#	TAA775	6		MON	12	1.0Δ	TTL	3		0.0	12						-25	85	1		M198
11	IMV0225	6		PCB	2.5%	.40*	DTL	0	4	0	5.0				40m	500m	0	75	1	C068	CB51
12	CT16	6,4	2.0M	PCB	4.0	0.0			171	0	8.0				2.1		5	71	1	C0611	CB37a
13	CJ16	6,4	2.0M	PCB	5.0	0.0	DTL		394	8	8.0				2.3		0	70	1	C0611	CB37a
14	CT10	6,4B	5.0M	PCB	5.0	0.0	DTL		190	8	8.0				1.7		0	70	1	C064	CB37a
15	CC10	6A	300k	PCB	8.0	0.0	DTL	1	25	25	25				3.0		-55	100	1	C065	CB34
16	CH10	6A	1.0M	PCB	8.0	0.0	DTL	1	20	25	25				3.6		-55	100	1	C065	CB34

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

6. COUNTERS

IN ORDER OF (1) COUNTER (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF COUNTER	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1#	T156D2	1		MON	1.7%	.90*		13		0.0	5.0	20n			350m†		-55	125	1	E0146	M199
2#	T157D2	1		MON	1.7%	.90*		9		0.0	5.0	20nΔ			300m†		-55	125	1	E0147	M200
3#	T156D1	1		MON	1.8%	.85*		13		0.0	5.0	20n			350m†		0	75	1	E0146	M199
4#	T157D1	1		MON	1.8%	.85*		9		0.0	5.0	20nΔ			300m†		0	75	1	E0147	M200
5	PL4C07CF	1	100k	MOS	-2.0*	-9.0%		4		29	0				500m	1.0	0	70	1		FP33
6	PL4C07CP	1	100k	MOS	-2.0*	-9.0%		4		29	0				500m	1.0	0	70	1		TO116
7	PL4C01	1	100k	MOS	-3.0*	-9.0%	TTL	8		25	0		1.0u	1.0u	100m	1.0	-55	125	1	E0116	FP34
8	4XDM	1	200k	PCB	-10	0.0	RCT	3†		12	12				550m		0	50	4	E0113	CB19
9	N100	1	250k	3DM	-3.0	-11	DTL	2	2	12	12		500n	2.0u	3.8		-54	65	1		M64a
10	N101	1	250k	3DM	-3.0	-11	DTL	2	2	12	0		500n	2.0u	660m		-54	71	1		M64
11	N104	1	250k	3DM	-3.0	-11	DTL	2	2	12	0		500n	2.0u	3.6		-54	65	1		M64a
12	N111	1	250k	3DM	-3.0	-11	DTL	2	2	12	0		500n	2.0u	660m		-54	71	1		M64
13	N113	1	250k	3DM	-3.0	-11	DTL	2	2	12	0		500n	2.0u	660m		-54	65	1		M64a
14	N114	1	250k	3DM	-3.0	-11	DTL	2	2	12	12		500n	2.0u	1.4		-54	65	1		M64a
15	N118	1	250k	3DM	-3.0	-11	DTL	2	2	12	12		500n	2.0u	740m		-54	65	1		M64
16	N119	1	250k	3DM	-3.0	-11	DTL	2	2	12	12		500n	2.0u	740m		-54	65	1		M64
17	N120	1	250k	3DM	-3.0	-11	DTL	2	2	12	0		500n	2.0u	2.8		-54	65	1		M64a
18	N127	1	250k	3DM	-3.0	-11	DTL	2	2	12	12		500n	2.0u	1.4		-54	65	1		M64a
19	N135	1	250k	3DM	-3.0	-11	DTL	2	2	12	0		500n	2.0u	1.3		-54	71	1		M64a
20	N136	1	250k	3DM	-3.0	-11	DTL	2	2	12	0		500n	2.0u	1.8		-54	71	1	E0124	M64a
21	N138	1	250k	3DM	-3.0	-11	DTL	2	2	12	12		500n	2.0u	1.8		-54	71	1		M64a
22	412	1	300k	PCB	0.0	-6.8	DTL	8	8	12	12				1.8		0	55	1		CB24
23	M10022	1	300k	3DM	8.0	0.0				10	30								1		M40
24	PL4C07ACF	1	500k	MOS	-2.0*	-9.0%		4		29	0				500m	1.0	0	70	1		FP33
25	PL4C07ACP	1	500k	MOS	-2.0*	-9.0%		4		29	0				500m	1.0	0	70	1		TO116
26	M10132	1	800k	3DM	-6.5	0.0				18	6								1		M40
27	4XDH	1	1.0M	PCB	-10	0.0	RCT	3†		12	12				700m		0	50	4	E0113	CB19
28	N137	1	1.0M	3DM	-3.0	-11	DTL	2	1	12	0		50n	1.0u	780m		-54	71	1		M64
29	CD4004E	1	1.2M	MOS	10	0.0†	TTL	2	50	0.0	10	400nΔ	15u	15u	1.0m%		-40	80	1	E0154	Δ001ab
30#	9958-9-6B	1	2.0M%	MON	1.2%	.45*	RTL	2		0.0	4.3				140m†		0	75	1	E0110	M200
31	CuL958	1	2.0M	MON	1.4	.45		2		2.0	6.0	200n			135m		0	75	1	E0110	CN37
32	371CG	1	2.0M	MON	12	.40†		8	4	0.0	12	300n	100n	120n	350m	5.0 Δ	-30	85	1	E0149	CN69
33	371CN	1	2.0M	MON	12	.40†		8	4	0.0	12	300n	100n	120n	350m	5.0 Δ	-30	85	1	E0149	M204
34	372CG	1	2.0M	MON	12	.40†		8	4	0.0	12	300n	100n	120n	350m	5.0 Δ	-30	85	1	E0150	CN69
35	372CN	1	2.0M	MON	12	.40†		8	4	0.0	12	300n	100n	120n	350m	5.0 Δ	-30	85	1	E0150	M204
36	B100-10	1	2.0M	PCB	5.0			2		0	15	70n	100n	100n			-20	85	1	E017	CB27
37	DDC369	1	2.0M	PCM	0.0	-6.0		1	8	12	6.0	60n	95n	200n	2.4	1.5	-55	71	2	E0130	
38	CD4004	1	2.5M%	MOS	10	.01*	TTL	2	50	0	10	400nΔ			100 %	4.5	-55	125	7		FP44a
39	CD4004T	1	2.5M%	MOS	10	.01*	TTL	2	50	0	10	400nΔ			100 %	4.5	-55	125	7		CN52
40	SCL54004D	1	2.5M%	MOS	10	.01*	TTL	2	50	0.0	10	400nΔ			10u%	4.5	-55	125	8		TO116
41	SCL54004F	1	2.5M%	MOS	10	.01*	TTL	2	50	0.0	10	400nΔ			10u%	4.5	-55	125	8		TO86
42	SCL54004T	1	2.5M%	MOS	10	.01*	TTL	2	50	0.0	10	400nΔ			10u%	4.5	-55	125	7		
43	IFR2278	1	5.0M	PCB	2.0%	.95*	DTL	8	9	0	5.0	40n⧄	50n†	15n†	645m	1.0 Δ	0	75	1		CB⧄
44	IDC2272	1	5.0M	PCB	2.0%	1.1*	DTL	5	10	0	5.0	155nΔ			810m	500m	0	75	2		CB51
45	DC804	1	5.0M	PCB	2.2%	.70*	DTL	8	10	0	5.0	40n			850m	400m	0	75	2		CB⧄
46	DC810	1	5.0M	PCB	2.2%	.70*	DTL	10	10	0	5.0	40n			450m†	400m	0	75	2		CB⧄
47	DC5402	1	5.0M	PCB	2.6%	.70*	DTL	4	6	0	5.0	260nΔ				1.0	0	70	2		CB56
48	DC5403	1	5.0M	PCB	2.6%	.70*	DTL	4	6	0	5.0	260nΔ				1.0	0	70	3		CB56
49	N109	1	5.0M	3DM	-3.0	-11	DTL	2	1	12	0		50n	1.0u	780m		-54	71	1		M64
50	RL173K	1	10MØ	MON	3.3%	.30%	TTL	7	12	0.0	5.25	40nΔ	8.0n	5.0n	275m	400m*	0	75	1	E0264	FP21g
51	9306-1-6N	1	15M%	MON	1.7%	.90*	TTL	14	6	0.0	5.0	40nΔ			350m†	400m	-55	125	1	E0146	M151
52	9306-9-6N	1	15M%	MON	1.8%	.85*	TTL	14	6	0.0	5.0	40nΔ			350m†	400m	0	70	1	E0146	M151
53	RL191K	1	15MØ	MON	3.3%	.30%	TTL	7	12	0.0	5.5	40nΔ	8.0n	5.0n	400m	400m*	-55	125	1	E0156	FP21g
54	RL193K	1	15MØ	MON	3.3%	.30%	TTL	7	12	0.0	5.25	40nΔ	8.0n	5.0n	400m	400m*	0	75	1	E0156	FP21g
55	DC910	1	15M	PCB	2.0%	.80*	TTL	10	10	0	5.0	50n			450m†	400m	0	70	2		CB⧄
56	S5490F	1	18M%	MON	2.0%	.80*	TTL	6	10	0.0	5.0	60n			160m†		-55	125	1	E0140	M105r
57	RL151K	1	20MØ	MON	3.3%	.30%	TTL	11	12	0.0	5.5	37nΔ	8.0n	5.0n	200m	400m*	-55	125	1	E0155	FP21g
58	RL153K	1	20MØ	MON	3.3%	.30%	TTL	11	12	0.0	5.25	37nΔ	8.0n	5.0n	200m	400m*	0	75	1	E0155	FP21g
59	IDC2280	1	20M	PCB	2.0%	.95*	DTL	4	8	0	5.0	15n⧄	50n†	15n†	500m	1.0 Δ	0	75	2		CB⧄
60	S1280A	1	25M%	MON	2.0%	.80*	TTL	8	4†	0.0	6.0				250m		0	70	1		M105
61	SE1280A	1	25M%	MON	2.0%	.80*	TTL	8	4†	0	6.0				250m		0	70	1	E0132	M105
62	MC54450P	1	40M†%	MON	2.4%	.40*†	TTL	6	8	0.0	5.0				450m†		-55	125	1	K15353	M278
63	SN74LS196W	1	50MΔ	MON	2.0%	.70*	TTL	8	20	0.0	5.0	28nΔ			75m%	1.0 Δ	0	70	1	E0157	Δ004AA
64	SN74LS197W	1	50MΔ	MON	2.0%	.70*	TTL	8	20	0.0	5.0	42nΔ			75m%	1.0 Δ	0	70	1	E0167	Δ004AA
65	4225	1,2	1.0	PCB	-3.0	0.0	RCT	1	6	15	10		100n	250n	2.3	300m	-20	55	8		CB30
66	MC14	1,2	1.0M	PCB	0.0	-6.2	DTL	11		18	18	40n	100n	100n	1.6	2.5 *	0	55	1		CB25
67	MS14	1,2	1.0M	PCB	6.2	0.0	DTL	11		18	18	40n	100n	100n	1.6	2.5 *	-30	100	1		CB25
68	RDC801	1,6	5.0M	PCB	3.1	0.0	DTL	1	6	0.0	5.0	120n			750m	500m	0	75	1		
69	RDXM/RDLM	1B	200k	PCB	-10	0.0	RCT	2		12	12				1.5		0	50	4	E012a	CB19
70#	B690	1F	1.0k	PCB	0.0	-6.0	DTL	9	4	12	6.0	10u	200n	1.0u	500m	2.0	-15	60	1	E0115	CB35
71	BC20	1F	200k	PCB	6.0	0.0	DTL	5	12	18	12	600n	500n†	800n†	1.3	1.5 *	-20	55	4	E0122	CB13a
72	MC12	1F	1.0M	PCB	0.0	-6.2	DTL	19	8	18	18	90n	100n	100n	3.0	2.5 *	0	55	1		CB25
73	MC13	1F	1.0M	PCB	0.0	-6.2	DTL	21		18	18	40n	100n	100n	3.4	2.5 *	0	55	1		CB25
74	BC30	1F	1.0M	PCB	6.0	0.0	DTL	5	12	18	12	150n	100n†	150n†	1.8	1.5 *	-20	55	4	E0122	CB13a
75	BC130	1F	1.0M	PCB	6.0	0.0	DTL	5	12	12	18	100n			1.8	1.5 *	-55	100	4	E0121	CB13a
76	MS12	1F	1.0M	PCB	6.2	0.0	DTL	8	8	18	18	90n	100n	100n	3.0	2.5 *	-30	100	1		CB25
77	IDC2263	1F	5.0M	PCB	2.0%	1.1*	DTL	4	8	0	5.0	150nΔ			575m	500m	0	75	1		CB51
78	BC35	1F	5.0M	PCB	6.0	0.0	DTL	5	18	18	12	30n	25n†	50n†	2.5	1.5 *	-20	55	4	E0122	CB13a
79	BC37	1F	10M	PCB	6.0	0.0	DTL	5	6	18	12	30nΔ			2.5	1.5 *	-20	55	4	E0122	CB13a
80#	5490-1-6A	1F	18M%Δ	MON	2.0%	.70*	TTL	6	10	0.0	5.0	100nΔ			160m†	1.0 Δ	-55	125	1	E0131	M157
81#	7490-9-6A	1F	18M%Δ	MON	2.0%	.80*	TTL	6	10	0.0	5.0	100nΔ			160m†	1.0 Δ	0	70	1	E0131	M157
82	PD7490	1F	18M%	MON	2.0%	.80*	TTL	6	40	0.0	7.0	75n%			160m†	1.0	0	75	1	E0131	TO116
83	SN5490	1F	18M%	MON	2.0%	.80*	TTL	6	40	0	5.5	75n%			160m†	1.0	-55	125	1	E0131	TO84
84	SN7490	1F	18M%	MON	2.0%	.80*	TTL	6	40	0	7	75n%			160m†	1.0	0	70	1	E0131	TO84
85	SN7490J	1F	18M%	MON	2.0%	.80*	TTL	6	40	0	7	75n%			160m†	1.0 Δ	0	70	1	E0131	M75a
86	N128	1H	63k	3DM	-3.0	-11	DTL	6		12	0		500n	1.5u	1.1		-54	71	1		M64b
87	N131	1H	63k	3DM	-3.0	-11	DTL	6		12	0		500n	1.5u	1.1		-54	71	1		M64b
88	N102	1H	250k	3DM	-3.0	-11	DTL	2	2	12	0		500n	2.0u	1.1		-54	71	1		M64b
89	N103	1H	250k	3DM	-3.0	-11	DTL	2	2	12	12		500n	2.0u	1.9		-54	65	1		M64c
90	N105	1H	250k	3DM	-3.0	-11	DTL	2	2	12	0		500n	2.0u	660m		-45	65	1		M64d
91	N106	1H	250k	3DM	-3.0	-11	DTL	2	2	12	12		500n	2.0u	840m		-45	65	1		M64e
92	N112	1H	250k	3DM	-3.0	-11	DTL	2	2	12	0		500n	2.0u	1.1		-54	71	1		M64b
93	N121A	1H	250k	3DM	-3.0	-11	DTL	2	2	12	0		500n	2.0u	1.3		-54	71	1		M64b
94	N134	1H	250k	3DM	-3.0	-11	DTL	2	2	12	0		500n	6.0u	1.1		-54	50	1		M64b
95	F1822B	1H	1.1M	PCB	0.0	-6.0	RCT	2		0	12		200n		1.8		0	72	1	E0117	CB5
96	N110	1H	5.0M	3DM	-3.0	-11	DTL	2	1	12	0		50n	1.0u	1.3		-54	71	1		M64b
97	N123	1H	5.0M	3DM	-3.0	-11	DTL	2	1	12	0		50n	1.0u	1.3		-54	71	1		M64b
98	B100-1	1J	2.0M	3DM				2		0	180	70n	100n	100n			-20	85	1	E016	M51
99	B100-2	1J	2.0M	3DM				2		0	200	70n	100n	10u			-20	85	1	E0128	M51
100	B100-50	1J	50M	3DM	25*	20*				0	180	20n	10n	10n			0	60		E0111	M51
101	B100-82,A	1JR	1.0M	3DM				13		0	180	70n	100n	100n			-20	85		E0112	M58
102	N121	1M	250k	3DM	-3.0	-11	DTL	2	2	12	0.0		500n	2.0u	1.3		-54	71	1		M64b
103	B100-80	1R	1.0M	PCB				4		0	15	70n	100n	100n			-20	85		E019	CB28
104	RDC332	1R	2.0M	PCM	0.0	6.0	DTL	4	6	6.0	12	35n⧄	50n	70n	2.3	2.0	-55	125	8	E0310a	CB36
105	RDC362	1R	2.0M	PCM	0.0	-6.0	DTL	4	8	12	6.0	40n⧄	32n	70n	2.8	2.0	-55	71	8	E0310	CB36
106#	T158D2	2		MON	1.7%	.90*		9		0.0	5.0	20nΔ			300m†		-55	125	1	E0147	M200
107#	T158D1	2		MON	1.8%	.85*		9		0.0	5.0	20nΔ			300m†		0	75	1	E0147	M200
108	DC01CCTR2	2	20k	PCB	0.0	-6.0		10	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	4	E024	
109	DC01CXCTR2	2	20k	PCB	0.0	-6.0		10	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	4	E024	
110	DC01CSCTR2	2	20k	PCB	6.0	0.0		10	4	12	12	500n	1.0u	1.0u		1.0	-55	100	4	E024	

6. COUNTERS

IN ORDER OF (1) COUNTER (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF COUNTER	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	DC01CSXCTR2	2	20k	PCB	6.0	0.0		10	4	12	12	500n	1.0u	1.0u		1.0	-55	100	4	E024	
2	M10493G	2	60k	3DM	4.5	0.0				28	0.0								1		
3	DC1CCTR2	2	100k	PCB	0.0	-6.0		10	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	4		
4	UC641	2	100k	PCB	0.0	-6.0	RCT	2	6	12	12	1.0u	1.0u	2.0u	600m	1.5 Δ	-45	65	4	E021	CB1
5	BC21	2	100k	PCB	0.0	-10	RCT	3	10	12	6.0	300n%	1.0u	4.0u	370m	1.5	-20	55	1	E025	CB10
6	M10493S	2	100k	3DM	4.5	0.0				0.0	28								1		
7	CM8603	2	100k	3DM	10	0.0				10	30								1		M37
8	MEM1050	2	160k	MOS	-2.0*	-10%	TTL	4		30	.30				300m	1.0 *	-55	85	1	E0226	FP47
9	PM6003	2	175k	3DM	-5.0	0.0				18	0.0								1		
10	5608BM	2	200kΔ	MOH	2.0%	.60*	TTL	2	8	0	6.8						-55	125	1		FP50a
11	5608CM	2	200kΔ	MOH	2.0%	.60*	TTL	2	8	0	6.8						0	70	1		FP50a
12	4XHM	2	200k	PCB	-10	0.0	RCT	3		12	12				550m		0	50	4	E0218	CB19
13	GBC1-.2	2	200k	PCB	-10	0.0	RCT	1	8	12	6.0	400n	1.0u	500n	720m	2.0	0	55	4	E0219	CB15
14	IUC1-.2	2	200k	PCB	-10	0.0	TFT	5	10	30	6.0	1.2u	1.0u	500n	3.1	1.5	0	55	2	E0228	
15	CC355	2	250k	PCB	0.0	-6.0	DTL	2		12	6.0						-55	71	1	E0221	CB36
16	RTC354	2	250k	PCM	0.0	-6.0	DTL	4	8	12	6.0	140n⧄	150n	500n	2.5k	2.0	-55	71	10	E0222	CB36
17	5605BM	2	300kΔ	MOH	2.0%	.60*	TTL	1	16	0	6.8						-55	125	1		FP50a
18	5605CM	2	300kΔ	MOH	2.0%	.60*	TTL	1	16	0	6.8						0	70	1		FP50a
19	SBC21	2	300k	PCB	0.0	8.0	RCT	3	10	12	12	180n%	500n	1.0u	350m	1.5	-40	75	1	E025	CB10
20	410	2	300k	PCB	0.0	-6.8	DTL	10	10	12	12				1.0		0	55	1		CB24
21	BC1	2	300k	PCB	0.0	-10	RCT	3	10	12	6.0	180n%	500n	1.0u	380m	1.5	-20	55	1	E025	CB10
22	CM86031	2	300k	3DM	10	0.0				10	30								1		M37
23	SCL5407D	2	500k	MOS	7.0%	3.0*		9	10	.50	20	700n%	100u	100u	100u%		0	75	1	E0247	M⧄
24	SCL5407F	2	500k	MOS	7.0%	3.0*		9	10	.50	20	700n%	100u	100u	100u%		0	75	1	E0247	FP⧄
25	MEM5048	2	500k	MOS	-10%	-2.0*				27	0.0		1.0n	1.0n			-55	85	1		FP48
26	UC741	2	500k	PCB	0.0	-6.0	RCT	2	6	12	12	500n	350n	350n	1.2	1.5 Δ	-45	65	4	E021	CB1
27	CM7283	2	500k	3DM	0.0	-6.5				18	6.0								1		M37
28	PM8563	2	500k	3DM	17	0.0				30	0								1		ZB37
29	PM8513	2	750k	3DM	10	0.0				10	30								1		ZB37
30	PM6753	2	800k	3DM	0.0	-6.5				18	6.0								1		ZB37
31	PM7253	2	800k	3DM	0.0	-6.5				18	6.0								1		ZB37
32	PM11113	2	800k	3DM	0.0	-6.5				18	6.0								1		ZB37
33	5628BM	2	1.0MΔ	MOH	2.0%	.70*	TTL	2	8	0	6.8						-55	125	1		FP50a
34	5628CM	2	1.0MΔ	MOH	2.0%	.70*	TTL	2	8	0	6.8						0	70	1		FP50a
35	SCL5407AD	2	1.0M	MOS	10	0.0		9	50	0.0	10	500n	100u	100u	100u	4.5	-55	125	1	E0247	M⧄
36	SCL5407AF	2	1.0M	MOS	10	0.0		9	50	0.0	10	500n	100u	100u	100u	4.5	-55	125	1	E0247	FP⧄
37	4222	2	1.0M	PCB	0.0	-3.0	RCT	3	6	15	10		90n	130n	2.4	500m	-20	55	7	E0215	CB30
38	4204	2	1.0M	PCB	3.0	0.0	RCT	7	14	15	10	80n	100n	250n	2.1	500m	-20	55	2	E0217	CB30
39	4XHH	2	1.0M	PCB	-10	0.0	RCT	3		12	12				700m		0	50	4	E0218	CB19
40	GBC1-1	2	1.0M	PCB	-10	0.0	RCT	1	8	12	6.0	200n	250n	200n	720m	2.0	0	55	4	E0219	CB15
41	MM10933	2	1.0M	3DM	6.0	0.0				6.0	18								1		MP38
42	5625BM	2	1.5MΔ	MOH	2.0%	.70*	TTL	1	16	0	6.8						-55	125	1		FP50a
43	5625CM	2	1.5MΔ	MOH	2.0%	.70*	TTL	1	16	0	6.8						0	70	1		FP50a
44	SBC1	2	1.5M	PCB	0.0	8.0	RCT	3	10	12	12	120n%	150n	250n	985m	1.5	-40	75	1	E025	CB10
45	BC320	2	2.0M	MOH	6.3	1.1	DTL	4†	8	0.0	6.3				760m	1.3	0	55	6	E0256	CB13
46	SCL5401D	2	2.0M	MOS	7.0%	3.0*		9	10	.50	20	175n%	10u	10u	1.0u%		-55	125	1	E0247	M⧄
47	SCL5401F	2	2.0M	MOS	7.0%	3.0*		9	10	.50	20	175n%	10u	10u	1.0u%		-55	125	1	E0247	FP⧄
48	CC335	2	2.0M	PCB	0.0	-6.0	DTL	2		6.0	12						-55	71	1	E0221a	CB36
49	CC365	2	2.0M	PCB	0.0	-6.0	DTL	2		12	6.0						-55	71	1	E0221	CB36
50	DC2CCTR2	2	2.0M	PCB	0.0	-6.0		10	6	18	18	50n	150n	250n		1.2	-55	55	4		
51	UC841	2	2.0M	PCB	0.0	-6.0	RCT	2	5	12	12	75n	90n	110n	1.2	1.5 Δ	-45	65	4	E021	CB1
52	BC1A	2	2.0M	PCB	0.0	-10		3	7	12	6.0	100n%	100n	250n	760m	1.5	-20	55	1	E025	CB10
53	DC2CSCTR2	2	2.0M	PCB	6.0	0.0		10	6	18	18	50n	150n	250n		1.2	-55	100	4		
54	RTC334	2	2.0M	PCM	0.0	6.0	DTL	4	6	6.0	12	35n⧄	50n	70n	2.9	2.0	-55	125	10	E0222a	CB36
55	RTC364	2	2.0M	PCM	0.0	-6.0	DTL	4	8	12	6.0	40n⧄	32n	70n	3.5	2.0	-55	71	10	E0222	CB36
56	CD4020D	2	2.5MØ	MOS	9.99%	.01†*	TTL	2	12	0.0	10	150n⧄	15u	15u	250u%	4.5 Δ	-55	125	1	E0261	Δ001AE
57	CD4020E	2	2.5MØ	MOS	9.99%	.01†*	TTL	2	12	0.0	10	150n⧄	15u	15u	1.0m%	4.5 Δ	-40	85	1	E0261	Δ001AC
58	SCL4020D	2	2.5MØ	MOS	9.99%	.01†*	TTL	2	12	0.0	10	150n⧄	15u	15u	250u%	4.5 Δ	-55	125	1	E0261	Δ001AE
59	SCL4020F	2	2.5MØ	MOS	9.99%	.01†*	TTL	2	12	0.0	10	150n⧄	15u	15u	250u%	4.5 Δ	-55	125	1	E0261	Δ004AG
60	CD4020	2	2.5M%	MOS	10	0.0	TTL	2	50	0.0	10	150n	15u	15u	250u	4.5 Δ	-55	125			FP⧄
61	CM10133	2	2.5M	3DM	0.0	-6.5				18	6.0								1		M37
62	5648BM	2	3.0MΔ	MOH	2.0%	.70*	TTL	2	8	0	6.8						-55	125	1		FP50a
63	5648CM	2	3.0MΔ	MOH	2.0%	.70*	TTL	2	8	0	6.8						0	70	1		FP50a
64	CD4017D	2	3.0M%	MOS	9.99%	.01†*	TTL	3	11	0.0	10	225n			100u%	7.0	-55	125	1	E0259	Δ001AE
65	CD4017E	2	3.0M%	MOS	9.99%	.01†*	TTL	3	11	0.0	10	225n			1.0m%	7.0	-40	80	1	E0259	Δ001AC
66	CD4018D	2	3.0M%	MOS	9.99%	.01†*	TTL	4	10	0.0	10	250n			100u%	7.0	-55	125	1	E0260	Δ001AE
67	CD4018E	2	3.0M%	MOS	9.99%	.01†*	TTL	4	10	0.0	10	250n			1.0m%	7.0	-40	80	1	E0260	Δ001AC
68	SCL4017D	2	3.0M%	MOS	9.99%	.01†*	TTL	3	11	0.0	10	225n			100u%	7.0	-55	125	1	E0259	Δ001AE
69	SCL4017F	2	3.0M%	MOS	9.99%	.01†*	TTL	3	11	0.0	10	225n			100u%	7.0	-55	125	1	E0259	Δ004AG
70	SCL4018D	2	3.0M%	MOS	9.99%	.01†*	TTL	4	10	0.0	10	250n			100u%	7.0	-55	125	1	E0260	Δ001AE
71	SCL4018F	2	3.0M%	MOS	9.99%	.01†*	TTL	4	10	0.0	10	250n			100u%	7.0	-55	125	1	E0260	Δ004AG
72	TA5385	2	3.0M	MOS	9.99	.01†	TTL	2	50	0.0	15	150n			400u†	4.0 Δ	-55	125	1		FP50a
73	CD4017	2	3.0M%	MOS	10	0.0	TTL	3	50	0.0	10	225n	15u	15u	100u	4.5 Δ	-55	125			FP⧄
74	CD4018	2	3.0M%	MOS	10	0.0	TTL	4	50	0.0	10	250n	15u	15u	100u	4.5 Δ	-55	125			FP⧄
75	CM10243	2	3.0M	3DM	13	5.0				0	20								1		M37
76	5598BM	2	5.0MΔ	MOH	2.0%	.60*	TTL	1	16	0	6.8						-55	125	1		FP50a
77	5598CM	2	5.0MΔ	MOH	2.0%	.60*	TTL	1	16	0	6.8						0	70	1		FP50a
78	5645BM	2	5.0MΔ	MOH	2.0%	.70*	TTL	1	16	0	6.8						-55	125	1		FP50a
79	5645CM	2	5.0MΔ	MOH	2.0%	.70*	TTL	1	16	0	6.8						0	70	1		FP50a
80	BC335	2	5.0M	MOH	6.3*	1.1*	DTL	3	2	0	6.3				600m	1.3	0	55	6	B038g	CB13
81	BC336	2	5.0M	MOH	6.3*	1.1*	DTL	4	8	0	6.3	60n⧄			2.2	1.3	0	55	20	E027	CB13
82	RM203	2	5.0M	MON				3	4	0.0	6.0				9.5	560m					
83	BC2	2	5.0M	PCB	0.0	-10	RCT	3	7	12	6.0	50n%	50n	150n	760m	1.5	-20	55	1	E025	CB10
84	827	2	5.0MΔ	PCB	2.0%	.45*	DTL	7	9	0.0	5.0	70nΔ			600m	1.4	0	70	2	E0225	CB50
85	IBC0208	2	5.0M	PCB	2.0%	1.1*	DTL	2	10	0	5.0	90nΔ			545m	500m	0	75	2	E0231	CB51
86	IBC0232	2	5.0M	PCB	2.0%	1.1*	DTL	3	10	0	5.0	90nΔ			550m	500m	0	75	2	E0232	CB51
87	IBC2232	2	5.0M	PCB	2.0%	1.1*	DTL	3	10	0	5.0	90nΔ			550m	500m	0	75	2	E0232	CB51
88	IDC0210	2	5.0M	PCB	2.0%	1.1*	DTL	5	11	0	5.0	200nΔ			420m	500m	0	75	2	E0239	CB51
89	IDC2210	2	5.0M	PCB	2.0%	1.1*	DTL	5	11	0	5.0	200nΔ			420m	500m	0	75	2	E0239	CB51
90	IUC0218	2	5.0M	PCB	2.0%	1.1*	DTL	4	11	0	5.0	90nΔ			550m	500m	0	75	2		CB51
91	BC803	2	5.0M	PCB	2.2%	.70*	DTL	7	9	0	5.0	40n			850m	400m	0	75	2		CB⧄
92	BC5406	2	5.0M	PCB	2.6%	.70*	DTL	4	6	0	5.0	260nΔ				1.0	0	70	2		CB56
93	BC5407	2	5.0M	PCB	2.6%	.70*	DTL	4	6	0	5.0	260nΔ				1.0	0	70	3		CB56
94	BC31	2	5.0M	PCB	3.0	0.0	DTL	3	30	0	4.0		210n	100n	1.0	4.0	-40	75	2		CB10
95	GBC1-5	2	5.0M	PCB	-10	0.0	RCT	1	8	12	6.0	100n	50n	50n	720m	1.5	0	55	4	E0219	CB15
96	SN54L193N	2	7.0M%	MON	2.0%	.70*	TTL	8	10	0.0	5.0	135n%			43m†	1.0 Δ	-55	125	1	E0329	M117
97	RL163K	2	10MØ	MON	3.3%	.30%	TTL	7	12	0.0	5.25	40nΔ	8.0n	5.0n	275m	400m*	0	75	1	E0263	FP21g
98	RL181K	2	10MØ	MON	3.3%	.30%	TTL	7	12	0.0	5.5	40nΔ	8.0n	5.0n	400m	400m*	-55	125	1	E0265	FP21g
99	CD4004AD	2	10M%	MOS	10	0.0†		2		0.0	10	125nΔ	10uΔ	10uΔ	100u%	4.5 Δ	-55	125	1	E0154	Δ001AD
100	CD4004AE	2	10M%	MOS	10	0.0†		2		0.0	10	150nΔ	10uΔ	10uΔ	1.0m%	4.5 Δ	-40	85	1	E0154	Δ001AB
101	CD4004AK	2	10M%	MOS	10	0.0†		2		0.0	10	125nΔ	10uΔ	10uΔ	100u%	4.5 Δ	-55	125	1	E0154a	Δ004AF
102	CD4004AT	2	10M%	MOS	10	0.0†		2		0.0	10	125nΔ	10uΔ	10uΔ	100u%	4.5 Δ	-55	125	1	E0154a	Δ006AG
103	DC10CCTR2	2	10M	PCB	-0.0	-6.0		10	4	18	18	25n	50n	80n		1.2	-55	55	4		
104	UC941	2	10M	PCB	-0.0	-6.0	RCT	2	4	12	12	25n	26n	30n	2.1	1.5 Δ	-45	65	4	E021	CB1
105	MM10333	2	10M	3DM	6.0	0.0				6.0	18								1		MP38
106	PM10283	2	10M	3DM	6.5	0.0				18	6.0								1		ZB37
107	WM10333	2	10M	3DM	6.5	0.0				6.0	18								1		M43
108	RC213D	2	11M†	MON	2.0%	1.0*	DTL	7	15	0	6.0				50m†	550m	0	75	1		M105m
109	RC213G	2	11M†	MON	2.0%	1.0*	DTL	7	15	0	6.0				50m†	550m	0	75	1		TO84
110	RC213P	2	11M†	MON	2.0%	1.0*	DTL	7	15	0	6.0				50m†	550m	0	75	1		M105k

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

6. COUNTERS

IN ORDER OF (1) COUNTER (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF COUNTER	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	RC213T	2	11M†	MON	2.0%	1.0*	DTL	7	15	0	6.0				50m†	550m	0	75	1		TO101
2	RM213P	2	11M†	MON	2.0%	1.0*	DTL	7	15	0	6.0				50m†	550m	-55	125	1		M105k
3	BC903	2	14M	PCB	2.0%	.80*	TTL	11	10	0	5.0	50n			320m†	400m	0	70	2		CB⌀
4#	9316-1-4L	2	15M%	MON	1.7%	.90*	TTL	4	6	0.0	5.0	20n			300m†	400m	-55	125	1	E0239	FP47a
5#	9316-9-4L	2	15M%	MON	1.8%	.85*	TTL	4	6	0.0	5.0	20n			300m†	400m	0	75	1	E0239	FP47a
6	RL183K	2	15MØ	MON	3.3%	.30%	TTL	7	12	0.0	5.25	40nΔ	8.0n	5.0n	400m	400m*	0	75	1	E0265	FP21g
7	S5492F	2	18M%	MON	2.0%	.80*	TTL	4	10	0.0	5.0	60n			155m†		-55	125	1	E0246b	M105r
8	S5493F	2	18M%	MON	2.0%	.80*	TTL	3	10	0.0	5.0	75n			128m†		-55	125	1	E0246a	M105r
9	SN5493J	2	20M	MON	2.4%	.40*	TTL	1	10	0	5.0	50n	10n†	10n†	160mΔ	1.0 Δ	-55	125	1	E0235	M75a
10	RL141K	2	20MØ	MON	3.3%	.30%	TTL	11	12	0.0	5.5	37nΔ	8.0n	5.0n	200m	400m*	-55	125	1	E0262	FP21g
11	RL143K	2	20MØ	MON	3.3%	.30%	TTL	11	12	0.0	5.25	37nΔ	8.0n	5.0n	200m	400m*	0	75	1	E0262	FP21g
12	IDC0257	2	20M	PCB	2.0%	1.1*	DTL	3	10	0	5.0	120nΔ		50n	500m	500m	0	75	2		CB51
13	NE8281A	2	25M%	MON	2.0%	.80*	DTL	8	8†	0	6.0				100m		0	75	1	E0237	TO116
14	NE8281J	2	25M%	MON	2.0%	.80*	DTL	8	8†	0	6.0				100m		0	75	1	E0237	TO88
15	S1281A	2	25M%	MON	2.0%	.80*	TTL	8	4†	0.0	6.0				250m		0	70	1		M105
16	SE1281A	2	25M%	MON	2.0%	.80*	TTL	8	4†	0	6.0				250m		0	70	1	E0237	M105
17	SE8281A	2	25M%	MON	2.0%	.80*	DTL	8	8†	0	6.0				100m		-55	125	1	E0237	TO116
18	SE8281J	2	25M%	MON	2.0%	.80*	DTL	8	8†	0	6.0				100m		-55	125	1	E0237a	TO85
19	N8281J	2	25M†%	MON	2.6%	.50*†		8	8	0	5.0	25n%Δ		50n	194m	1.0 Δ	0	75	1	E0237a	TO88
20	S8281J	2	25M†%	MON	2.6%	.50*†		8	8	0	5.0	25n%Δ		50n	194m	1.0 Δ	-55	125	1	E0237a	TO88
21	MEM1050B	2	25M	MOS	-2.0*	-10%		4		27	0		650n	525n	300m		-55	85	1	E0226	FP47
22	MEM1055	2	25M	MOS	-2.0*	-10%		4		27	0		650n	525n	300m		-55	85	1	E0226a	FP48
23	MC960F	2	40M†%	MON	2.6%	.40*†	DTL	4	8	0.0	5.0	15n			100m†		-55	125	2	E0245	TO86
24	MC860F	2	40M†%	MON	2.6%	.45*†	DTL	4	10	0.0	5.0	15n			100m†		0	75	2	E0245	TO86
25	MC860P	2	40M†%	MON	2.6%	.45*†	DTL	4	10	0.0	5.0	15n			100m†		0	75	2	E0245	M114
26	DC50CSCTR2	2	50M	PCB	3.0	0.0		10	4	12	12	9.0n	7.0n	10n		1.0	-10	100	4	E0237	
27	FT11	2,1	10M	PCB	4.0	0.0	DTL	11	27	0	8.0				1.4		5	71	4	E0230	CB37a
28	5603BM	2,3R	200kΔ	MOH	2.0%	.60*	TTL	1	4	0	6.8						-55	125	1		FP50a
29	5603CM	2,3R	200kΔ	MOH	2.0%	.60*	TTL	1	4	0	6.8						0	70	1		FP50a
30	5623BM	2,3R	1.0MΔ	MOH	2.0%	.70*	TTL	1	4	0	6.8						-55	125	1		FP50a
31	5623CM	2,3R	1.0MΔ	MOH	2.0%	.70*	TTL	1	4	0	6.8						0	70	1		FP50a
32	5643BM	2,3R	3.0MΔ	MOH	2.0%	.70*	TTL	1	4	0	6.8						-55	125	1		FP50a
33	5643CM	2,3R	3.0MΔ	MOH	2.0%	.70*	TTL	1	4	0	6.8						0	70	1		FP50a
34	OC5404	2,6	5.0M	PCB	2.6%	.70*	DTL	3	6	0	5.0	200nΔ				1.0	0	70	2		CB56
35	OC5405	2,6	5.0M	PCB	2.6%	.70*	DTL	3	6	0	5.0	200nΔ				1.0	0	70	3		CB56
36	412N	2F	300k	PCB	0.0	-6.8	DTL	16	8	12	12				2.4		0	55	1		CB24
37	415Δ	2F	300k	PCB	0.0	-6.8	DTL	11	8	12	12				1.4		0	55	1		CB24
38	MC11	2F	1.0M	PCB				21		18	18	40n	100n	100n	3.4	2.5	0	55	1		CB25
39	MC10	2F	1.0M	PCB	0.0	-6.2	DTL	19		18	18	30n	100n	100n	2.9	2.5	0	55	1		CB25
40	MC12N	2F	1.0M	PCB	0.0	-6.2	DTL	27		18	18	40n	100n	100n	3.5	2.5	0	55	1		CB25
41	MC15	2F	1.0M	PCB	0.0	-6.2	DTL	12	8	18	18	40n	100n	100n	2.2	2.5	0	55	1		CB25
42	MS10	2F	1.0M	PCB	6.2	0.0	DTL	9	9	18	18	50n	100n	100n	2.9	2.5	-30	100	1		CB25
43	MS12N	2F	1.0M	PCB	6.2	0.0	DTL	6	8	18	18	40n	100n	100n	3.5	2.5 *	-30	100	1		CB25
44	MS15	2F	1.0M	PCB	6.2	0.0	DTL	11	8	18	18	40n	100n	100n	2.2	2.5 *	-30	100	1		CB25
45	IBC0254	2F	5.0M	PCB	2.0%	1.1*	DTL	2	10	0	5.0	90nΔ			545m	500m	0	75	2	E0233	CB51
46#	5492-1-6A	2F	18M%	MON	2.0%	.80*	TTL	4	40	0.0	5.0	100nΔ			155m†	1.0 Δ	-55	125	1	E0234	M157
47#	5493-1-6A	2F	18M%	MON	2.0%	.80*	TTL	4	40	0.0	5.0	75n%			155m†	1.0	-55	125		E0235	M157
48#	7492-9-6A	2F	18M%	MON	2.0%	.80*	TTL	4	40	0.0	5.0	100nΔ			155m†		0	70	1	E0234	M157
49#	7493-9-6A	2F	18M%	MON	2.0%	.80*	TTL	4	40	0.0	5.0	75n%			155m†	1.0	0	70		E0235	M157
50	PD7493	2F	18M%	MON	2.0%	.80*	TTL	4	40	0.0	7.0	75n%			155m†	1.0	0	75	1	E0235	TO116
51	SN5493	2F	18M%	MON	2.0%	.80*	TTL	4	10	0	5.5	75n%			155m†	1.0	-55	125	1	E0235	TO84
52	SN7492	2F	18M%	MON	2.0%	.80*	TTL	4	40	0	7.0	75n%			155m†	1.0	0	70	1	E0234	TO84
53	SN7493	2F	18M%	MON	2.0%	.80*	TTL	4	40	0	7.0	75n%			155m†	1.0	0	70	1	E0235	TO84
54	SN5492J	2F	20M	MON	2.4%	.40*	TTL	1	10	0	5.0	50n	10n†	10n†	160mΔ	1.0 Δ	-55	125	1	E0234	M75a
55	411	2R	300k	PCB	0.0	-6.8	DTL	10	10	12	12				2.3		0	55	1		CB24
56	IFR0235	2R	2.5M	PCB	2.0%	1.1*	DTL	5	9	0	5.0	90nΔ			335m	500m	0	75	1		CB51
57	IFR2277	2R	2.5M	PCB	2.0%	1.1*	DTL	6	9	0	5.0	90nΔ			335m	500m	0	75	1		CB51
58	IFR0247	2R	5.0M	PCB	2.0%	1.1*	DTL	5	9	0	5.0	150nΔ			645m	500m	0	75	1		CB51
59	IFR2281	2R	5.0M	PCB	2.0%	1.1*	DTL	5	8	0	5.0	90nΔ			500m	500m	0	75	1		
60	PL5050#1	3	50kΔ	MON	-4*	-13%	TTL	4		30	0				25m		-55	125	1	E0316	TO86
61	PL5050#2	3	50kΔ	MON	-4*	-13%	TTL	4		30	0				25m		-55	125	1	E0316	FP33
62	B885001	3	100k	PCB			RTL	1		6.0	6.0		700n				-20	60	2	E034	CB9
63	DC21	3	100k	PCB	0.0	-10	RCT	3	10	12	6.0	300n%	1.0u	4.0u	370m	1.5	-20	55	1	E0311	CB10
64	B885000	3	100k	PCB	6.0	0.0	RTL	2		6.0	6.0		500n				-20	60	1	E033	CB6
65	M8742	3	100k	3DM	8.0	0.0				10	30								1		M40
66	5604BM	3	200kΔ	MOH	2.0%	.60*	TTL	2	8	0	6.8						-55	125	1		FP50a
67	5604CM	3	200kΔ	MOH	2.0%	.60*	TTL	2	8	0	6.8						0	70	1		FP50a
68	GDC1-.2	3	200k	PCB	-10	0.0	RCT	2	8	12	6.0	400n	1.0u	500n	720m	2.0	0	55	4	E038	CB15
69	IDC1-.2	3	200k	PCB	-10	0.0	TFT	7	10	30	6.0	1.2u	1.0u	500n	1.9	1.5	0	55	1	E0315	
70	IDC1	3	200k	TFH	-10	0.0	TFT	3	10	12	6.0	1.2u	1.0u	500n	1.9	1.5	0	55	1		
71	IUC1	3	200k	TFH	-10	0.0	TFT	3	10	12	6.0	1.2u			3.1	1.5	0	55	2		
72	DC356	3	250k	PCB	0.0	-6.0	DTL	3		12	6.0						-55	71	1	E039	CB36
73	SDC21	3	300k	PCB	0.0	-8.0	RCT	3	10	12	12	180n%	500n	1.0u	350m	1.5	-40	75	1	E0311	CB10
74	DC1	3	300k	PCB	0.0	-10	RCT	3	10	12	6.0	180n%	500n	1.0u	380m	1.5	-20	55	1	E0311	CB10
75	M87421	3	300k	3DM	8.0	0.0				10	30								1		M40
76	M6784	3	800k	3DM	0.0	-6.5				18	6.0								1		M40
77	5624BM	3	1.0MΔ	MOH	2.0%	.70*	TTL			0	6.8						-55	125	1		FP50a
78	5624CM	3	1.0MΔ	MOH	2.0%	.70*	TTL			0	6.8						0	70	1		FP50a
79	5626BM	3	1.0MΔ	MOH	2.0%	.70*	TTL	2	8	0	6.8						-55	125	1		FP50a
80	5626CM	3	1.0MΔ	MOH	2.0%	.70*	TTL	2	8	0	6.8						0	70	1		FP50a
81	GDC1-1	3	1.0M	PCB	-10	0.0	RCT	2	8	12	6.0	200n	250n	200n	720m	2.0	0	55	4	E038	CB15
82	M7233	3	1.0M	3DM	0.0	-6.5				18	6.0								1		M40
83	SDC1	3	1.5M	PCB	0.0	8.0	RCT	3	10	12	12	120n%	150n	250n	985m	1.5	-40	75	1	E0311	CB10
84	DC336	3	2.0M	PCB	0.0	-6.0	DTL	3		6.0	12						-55	71	1	E039a	CB36
85	DC1A	3	2.0M	PCB	0.0	-10	RCT	3	7	12	6.0	100n%	100n	250n	760m	1.5	-20	55	1	E0311	CB10
86	DC366	3	2.0M	PCM				2		12	6.0								1	E039b	CB36
87	M6744	3	2.0M	3DM	0.0	-6.5				18	6.0								1		M40
88	5644BM	3	3.0MΔ	MOH	2.0%	.70*	TTL	2	8	0	6.8						-55	125	1		FP50a
89	5644CM	3	3.0MΔ	MOH	2.0%	.70*	TTL	2	8	0	6.8						0	70	1		FP50a
90	DC2	3	5.0M	PCB	0.0	-10	RCT	3	7	12	6.0	50n%	50n	150n	760m	1.5	-20	55	1	E0311	CB10
91	305	3	5.0MΔ	PCB	2.0%	.45*	DTL	7	68	0.0	5.0	70nΔ			680m	1.4	0	70	2	E0312	CB50
92	DC31	3	5.0M	PCB	3.0	0.0	DTL	3	30	0	4.0		210n	100n	1.0	4.0	-40	75	2		CB10a
93	GDC1-5	3	5.0M	PCB	-10	0.0	RCT	2	8	12	6.0	100n	50n	50n	720m	1.5	0	55	4	E038	CB15
94	SN54L192N	3	7.0M%	MON	2.0%	.70*	TTL	8	10	0.0	5.0	135n%			43m†	1.0 Δ	-55	125	1	E0329	M117
95	NE8280A	3	25M%	MON	2.0%	.80*	DTL	8	8†	0	6.0				100m		0	75	1	E0317	TO116
96	NE8280J	3	25M%	MON	2.0%	.80*	DTL	8	8†	0	6.0				100m		0	75	1	E0317a	TO88
97	SE8280A	3	25M%	MON	2.0%	.80*	DTL	8	8†	0	6.0				100m		-55	125	1	E0317	TO116
98	SE8280J	3	25M%	MON	2.0%	.80*	DTL	8	8†	0	6.0				100m		-55	125	1	E0317a	TO88
99	N8280J	3	25M†%	MON	2.6%	.50*†		8	8	0	5.0	25n%Δ		50n	194m	1.0 Δ	0	75	1	E0317a	TO88
100	S8280J	3	25M†%	MON	2.6%	.50*†		8	8	0	5.0	25n%Δ		50n	194m	1.0 Δ	-55	125	1	E0317a	TO88
101	F1822A	3H	1.1M	PCB	0.0	-6.0	RCT	2		0	12		200		1.8		0	72	1	E031	CB5
102	F1831	3H	3.0M	PCB				2	8	0	3.3	70					0	72	1	E0314	CB52
103	F1832,A	3H	3.0M	PCB				2	8	0	3.3	70n					0	72	1	E0314	CB52
104	BIP8054	3J	110k	PCB	12	0.0		1		12	200	100n	100n				0	85	1	E035	CB12
105	BIP8055	3J	150k	PCB	12	0.0		1		12	200	1.0u	500n				0	85	10	E036	CB12
106	N402	4	250k	PCB			DTL	4	8	0	6.5	90n	500n	200n	550m	350m	-54	71			
107	N129	4	250k	PCB	1.5	-5.0	DTL	4	4	0	6.5	90n	500n	2.0u	550m	350m	0	75			
108	N401	4	250k	PCB	2.5	0.0	DTL	15	2	12	0	90n			550m		-54	71			
109	N403	4	250k	PCB	-3.0	-11	DTL	4	10	0	6.5		500n	200n	550m	350m	-54	71			
110	UD320	4	2.0M	MOH	6.3	1.1	DTL	4	4	0.0	6.3	200nΔ			1.0		0	55	4	E041	CB13

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

6. COUNTERS

IN ORDER OF (1) COUNTER (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF COUNTER	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	BC337	4	5.0M	MOH	6.3*	1.1*	DTL	10	8	0	6.3	200nΔ			800m	1.3	0	55	8		CB13
2	UD335	4	5.0M	MOH	6.3	1.1	DTL	7	6	0.0	6.3	160n			1.3		0	55	4	E042	CB13
3	UD336	4	5.0M	MOH	6.3	1.1	DTL	8	6	0.0	6.3	80n			1.2		0	55	4	E041a	CB13
4#	30350-01-2-268	5	300k	PCB	0.0	-12				12	12	1.0u	1.0u				0	50	12	E052	
5#	MA20	6		MON	-12%	-4.0*	MOS	6		20	0.0	450n	40n	425n	40m		-55	125	1	E066	CN25a
6	M87?2	6	100k	3DM	10	0.0				10	30								1		M40
7	ITT1056#1	6	1.0MΔ	MOS	-10%	-2.0*		11		27	13	2.5u	20u	20u			-55	85	1	K15331	M214
8.	4215	6	1.0M	PCB	0.0	-3.0	RCT	2	6	15	10		90n	160n	1.4	500m	-20	55	4	E061a	CB30
9	M21564	6	1.0M	3DM				1	5	0	3.0	200n	60n	60n	100m	200m	15	55	1		M68a
10	M9752	6	2.0M	3DM	0.0	-6.5				18	6.0								1		M40
11#	GDJ116	6	2.5M	MOS	-10%	-2.0*		5		-27	0.0		500n	500n	300m		-55	85	1	E0610	FP48
12	RDC808	6	5.0M	PCB	2.2%	.70*	DTL	13	6	0	5.0	40n			750m	400m	0	75	1		CB◿
13	M21514	6	5.0M%	3DM				1	3	0	4.0	100n	30n	30n	240m	700m	-55	125	1		M68
14	M21524	6	5.0M%	3DM				1	3	0	4.0	35n	30n	30n	240m	700m	-55	125	1		M68
15	FJJ211Δ	6	8.0M	MON	5.0	0.0			10		6.0				160m	1.0	0	70		E0235	M126c
16	M22594	6	10M	3DM				1	10	0	3.0	30n◿	20n	20n	162m	250mΔ	15	55	1	E065	M70
17	NB1001	6	20M	MON	.82	.57	RTL	3	5†	2.7	3.3	16n	38n	36n	70m	540m	-55	125	1	E063	CN29
18	NB2001	6	20M	MON	.82	.57	RTL	3	5†	2.7	3.3	16n	38n	36n	70m	540m	-55	125	1	E063	CN29
19	NB3001	6	20M	MON	.82	.57	RTL	3	5†	2.7	3.3	16n	38n	36n	70m	540m	15	55	1	E063	CN29
20	E001	6C	1.0M								12				200m		-55	125			M19c
21	DC1CDD1	6F	10k	PCB	0.0	-6.0		3	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	4		
22	DC01CDD1	6F	20k	PCB	0.0	-6.0		3	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	4		
23	DC01CXDD1	6F	20k	PCB	0.0	-6.0		3	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	4		
24	DC01CSDD1	6F	20k	PCB	6.0	0.0		3	4	12	12	500n	1.0u	1.0u		1.0	-55	100	4		
25	DC01CSXDD1	6F	20k	PCB	6.0	0.0		3	4	12	12	500n	1.0u	1.0u		1.0	-55	100	4		
26	DC2CDD1	6F	2.0M	PCB	0.0	-6.0		3	6	18	18	50n	150n	250n		1.2	-55	55	4		
27	DC2CSDD1	6F	2.0M	PCB	6.0	0.0		3	6	18	18	50n	150n	250n		1.2	-55	100	4		
28	DC10CDD1	6F	10M	PCB	0.0	-6.0		3	4	18	18	25n	50n	80n		1.2	-55	55	4		
29	DC50CSDD1	6F	50M	PCB	3.0	0.0		3	4	12	12	9.0n	7.0n	10n		1.0	-10	100	4		
30	BQDC100	6J	100k	PCB	4.0	0.0	RCT	2		50	135		500n		2.2				1	E064	CB4

7. DECODERS

IN ORDER OF (1) FROM (2) TO (3)MAX OPER FREQ (4)PROCESS(5)LEVEL'1'(6)LEVEL'0'(7)TYPE No.

LINE No.	7 TYPE No.	DECODES		3 MAX OPERATING FREQ. (Hz)	4 PROCESS	LOGIC LEVEL		No. OF LINES		POWER SUPPLY SPAN		TRANSITION TIME (s)	RISE TIME tr (s)	FALL TIME tf (s)	MAX. TOTAL POWER DISS. (W)	MAX. NOISE REJECT (V)	TEMP.		CKT PER MOD	DRAWINGS	
		1 FROM	2 TO			5 '1' (V)	6 '0' (V)	IN	OUT	NEG (V)	POS (V)						LOW °C	HI °C		LOGIC DWG. No	OUTLINE DWG. No Δ=MO
1#	28135				PCB	0.0	-12	6	32	60	0				3.0		0	50			
2#	28138				PCB	0.0	-12	14	28	60	0				2.5		0	50			
3	9327-9-4L		20		MON	1.8%	.85*	4	7	0.0	5.0				110m†	400m	0	75	1	F1715	FP47b
4	9327-9-7B		20		MON	1.8%	.85*	4	7	0.0	5.0				110m†	400m	0	75	1	F1715	M200
5	231	1	2	5.0MΔ	PCB	2.0%	.45*	8	10	0.0	5.0				125m	1.4	0	70	1	F0115	CB50
6#	9301-1	1	4		MON	2.4%	.40*Δ	4	10	0	5				145m	1.0	-55	125	1		
7#	9301-9	1	4		MON	2.4%	.45*Δ	4	10	0	5				145m	1.0	0	75	1		
8#	9960-9	1	4		MON	1.0%	.40*	4	10	0	5				45m	1.0	0	75	1		
9	FCL111	1	4		MON	90	0.0	4	10		6.0				125m	1.0	0	70			M117f
10	DC1CBDC1	1	4†	100k	PCB	0.0	-6.0	8†	10	18	18	1.0u	1.5u	3.0u		1.2	-55	55	1		
11	DC1MLD1G	1	4†	100k	PCM	0.0	-6.0	4	2	18	18	1.0u	1.5u	3.0u		1.2	-55	55	2		
12	DC1MLD2G	1	4†	100k	PCM	0.0	-6.0	4	2	18	18	1.0u	1.5u	3.0u		1.2	-55	55	2		
13	DC1MVC6G	1	4Δ	100k	PCM	0.0	-6.0	4	2	18	18	1.0u	1.5u	3.0u		1.2	-55	55	2		
14	GC15	1B	4	300k	PCB	8.0	0.0	8†	12	25					900m	700m	-55	100	12	F019	CB34
15	8040	1	4	1.0M	PCB	-4.4	0.0	8†	16	20	0.0				1.3	1.4	0	55	2	F011	CB2
16	BCD9A	1	4H	1.0M	PCB	1.0%	.60%	4	8	0	3.3						0	65	1	F0117	CB8a
17	GH15	1B	4	1.0M	PCB	8.0	0.0	8†	12	25					1.8	700m	-55	100	12	F019	CB34
18	9030	1	4	5.0M	PCB	3.0	-6.0	3	16	0	5	17n	6.5n	6.5n	600m	900m	0	70	1		CB54
19	DC1CBOC1	1	8†	100k	PCB	0.0	-6.0	6†	8	18	18	1.0u	1.5u	3.0u		1.2	-55	55	1		
20	MD21	1F	8	100k	PCB	0.0	-10	7†	8	12	6	120n%	1.0u	4.0u	370m	1.5	-20	55	1	F014	CB10
21	GDM1-.2	1	8	200k	PCB	-10	0.0	14	1	12	6.0		1.0u	1.0u	408m		0	55	1	F0112	CB15
22	OD20	1B	8	200k	PCB	0.0	-6.0	6	8	18	12	600n	500n†	800n†	800m	1.5 *	-20	55	1	F0116	CB13a
23	MD1	1F	8	300k	PCB	0.0	-10	7†	8	12	6	80n%	300n	1.0u	620m	1.5	-20	55	1	F014	CB10
24	SMD21	1F	8	300k	PCB	0.0	-8.0	7†	8	12	12	80n%	300n	1.0u	360m	1.5	-40	75	1		
25	4150	1	8	500k	PCB	-3.0	0.0	7	10	15	10		100n	600n	1.6	500m	-20	55	1	F016	CB30
26	4151	1	8	500k	PCB	0.0	-3.0	7	10	15	10		500n	200n	1.6	500m	-20	55	1	F016	CB30
27	GDM1-1	1	8	500k	PCB	-3.0	-.20			15	10		100n	1.5u	240m		-20	65	1		
28	ECL2517	1	8	1.0M	MON	.15%	-.15*	4	8	3.2	1.3	7.7nΔ	6.5nΔ	6.5nΔ		225mΔ	0	75	12	F0133	M117m
29	OD30	1B	8	1.0M	PCB	0.0	-6.0	6	8	18	12	100n	100n†	150n†	1.6	1.5 *	-20	55	1	F0116	CB13a
30	SMD1	1F	8	1.5M	PCB	0.0	-8.0	7†	8	12	12	100n%	150n	250n	630m	1.5	-40	75	1	F014	CB10
31	MD1A	1F	8	2.0M	PCB	0.0	-10	7†	8	12	6	40n%	100n	250n	1.2	1.5	-20	55	1	F014	CB10
32	1150	1	8	5.0M	PCB	-3.0	0.0	7	10	15	10		50n	60n	1.6	500m	-20	55	1	F016	CB30
33	1151	1	8	5.0M	PCB	0.0	-3.0	7	10	15	10		90n	90n	1.3	500m	-20	55	1	F016	CB30
34	GDM1-5	1	8	5.0M	PCB	-10	0.0	14	16	12	6.0		60n	60n	800m		0	55	1	F0112	CB15
35	MD2	1F	8	5.0M	PCB	0.0	-10	7†	8	12	6	20n%	50n	100n	1.2	1.5	-20	55	1	F014	CB10
36	MD31	1	8	5.0M	PCB	3.0	0.0	8	10	0	4		30n	90n	200m	2.0	-40	70	1		CB10a
37	OD35	1B	8	5.0M	PCB	0.0	-6.0	6	8	18	12	25n	25n†	50n†	2.2	1.5 *	-20	55	1	F0116	CB13a
38	6150	1	8	10M	PCB	-3.0	0.0	7	8	15	10		50n	70n	1.6	500m	-20	55	1	F016	CB30
39	6151	1	8	10M	PCB	0.0	-3.0	7	8	15	10		75n	60n	1.3	500m	-20	55	1	F016	CB30
40	BT12	1	8	10M%	PCB	4.0	0.0	7	8	0	8	18u			1.4	1.8	5	71	2	F0118	CB37a
41	4155	1	9	500k	PCB	0.0	-3.0	5	4	15	10	1.0u	100n	900n	1.6	500m	-20	55	2	F0111	CB30
42	6155	1	9	10M	PCB	0.0	-3.0	5	4	15	10		75n	60n	1.7	500m	-20	55	2	F017	CB30
43#	9307-1	1	18		MON	3.0%	.40*Δ	4	7	0	5					1.0	-55	125	1		
44#	9307-9	1	18		MON	2.7%	.45*Δ	4	7	0	5					1.0	0	75	1		
45#	9311-1-4M	1	18		MON	1.7%	.90*	4	16	0.0	5.0	35n			175m†	400m	-55	125			FP56
46#	9311-9-4M	1	18		MON	1.8%	.85*	4	16	0.0	5.0	40n			175m†	400m	0	75			FP56
47	MC1044	1	18		MON	.85%	1.5*†	4		5.2	0.0		4.0n	9.0n	245m†				1	F0129	M▨
48	SCL5206AD	1	18		MOS	10	0.0	4	50	0.0	10	90n			100u	4.5	-55	125	1	F0140	Δ001AD
49	SCL5206AF	1	18		MOS	10	0.0	4	50	0.0	10	90n			100u	4.5	-55	125	1	F0140	Δ004AF
50#	30318-01-2-261	1	18		PCB	0.0	-12		16	60	0.0				1.5		0	50		F0110	
51#	30318-02-2-261	1	18		PCB	0.0	-12	8	32	60	0.0				3.0		0	50		F0110	
52#	MA17	1	18	500k	MON	-12%	-4.0*	8	32	26	0.0	3.0u					-55	70	1	F0124	FP60
53	BD5416	1	18	5.0M	PCB	2.6%	.70*	9	16	0	5	30n				1.0	0	70	1		CB56
54	IBD2265	1	18	5.0M	PCB	2.0%	1.1*	5	16	0	5	120n			625m	400m	0	75	1		CB51
55	ND1	2F	Δ	10k	PCB	0.0	-10	4	10	12	150						-20	55	1		
56	SND1	2F	Δ	10k	PCB	0.0	-8.0	4	10	12	150						-40	75	1		
57	D4043	2		5.0M	PCB	2.0%	.95*	4	10	0	5		50n†	15n†		1.0 Δ	0	75			CB▨
58	PL4G03#1	2	1	100k†	MON	-9.0%	-3.0*	6	5	30	0.0				75m		-55	125	1	F0220	TO86
59	PL4G03#2	2	1	100k†	MON	-9.0%	-3.0*	6	5	30	0.0				75m		-55	125	1	F0220	FP33
60	IGF0231	2	1	5.0M	PCB	2.0%	1.1*	10	10	0	5				590m	500m	0	75	4	F0228	CB51
61	5606BM	2	4		MOH	2.0%	.60*			0	6.8						-55	125	1		FP50a
62	5606CM	2	4		MOH	2.0%	.60*			0	6.8						0	70	1		FP50a
63	5627BM	2	4		MOH	2.0%	.60*			0	6.8						-55	125	1		FP50a
64	5627CM	2	4		MOH	2.0%	.60*			0	6.8						0	70	1		FP50a
65	5646BM	2	4		MOH	2.0%	.60*			0	6.8						-55	125	1		FP50a
66	5646CM	2	4		MOH	2.0%	.60*			0	6.8						0	70	1		FP50a
67	5647BM	2	4		MOH	2.0%	.60*			0	6.8						-55	125	1		FP50a
68	5647CM	2	4		MOH	2.0%	.60*			0	6.8						0	70	1		FP50a
69#	5441-1-6B	2	4		MON	2.0%	.80*	4	10	0.0	5.0						-55	125		F0229	M153
70#	7441-9-6B	2	4		MON	2.0%	.80*	4	10	0.0	5.0					1.0 Δ	0	70		F0229	M153
71	DM8840D	2	4		MON	2.0%	.80*	4	10	0	7					1.0	0	70	1	F0229	M146
72	MC9760P	2	4		MON	55%	1.5*	4		0.0	3.6				115m†		15	55	1	F0238	M154
73	MC9860P	2	4		MON	55%	1.5*	4		0.0	3.6				115m†		0	75	1	F0238	M154
74#	MIC5441BJ	2	4		MON	2.0%	.80*	4	10	0.0	7.0					1.0	-55	125	1	F0229	M153a
75#	MIC6441BJ	2	4		MON	2.0%	.80*	4	10	0.0	7.0					1.0	-40	85	1	F0229	M153a
76#	MIC7441BJ	2	4		MON	2.0%	.80*	4	10	0.0	7.0					1.0	0	75	1	F0229	M153a
77	PD7441A	2	4		MON	2.0%	.80*	4	10	0.0	7.0					1.0 Δ	0	75	1	F0229a	M153
78	PD7442	2	4		MON	2.0%	.80*	4	100	0.0	7.0	30n%			140m†	1.0 Δ	0	75	1	F0229a	M153
79	PD7445	2	4		MON	2.0%	.80*	4	10	0.0	7.0	50nΔ			215m†	1.0 Δ	0	75	1	F0179	M153
80	PD74145	2	4		MON	2.0%	.80*	4	10	0.0	7.0	50nΔ			215m†	1.0 Δ	0	75	1	F0179	M153
81	SN5441N	2	4		MON	2.0%	.80*	4	10	0	7					1.0	-55	125	1	F0229	M117
82	SN7441AJ	2	4		MON	2.0%	.80*	4	10	0.0	5.0					1.0 Δ	0	70	1	F0229	M153
83	SN7441N	2	4		MON	2.0%	.80*	4	10	0	7					1.0	0	70	1	F0229	M117
84	UC6000	2	4		MOS	9.0%	3.0*	4	10	30	0.0	1.0u%	400n	75n	175m	1.5 *	-55	125	1	F0229b	FP34
85	IN800	2	4		PCM	8.0													1	F0222	
86	MC7441P	2	4		TTL		2.5*	4		0.0	5.0				105m		0	70	1	F0237	M114
87	CT628-2	2	4	1.0k	PCB	-11	-3.0	7	5	12	0.0				86m		-45	65	2		CB16
88	DLMD	2	4	1.0k	PCB	-10	0.0	8	10	12	12				675m		0	50	1	F0210	CB19
89	DNXD	2	4	1.0k	PCB	-10	0.0	8	10	12	12				525m		0	50	1	F0210a	CB19
90	T628	2	4	1.0k	3DM	-3.0	-11	7	5	12	0				43m		-45	65	1	F026	M17
91	B1701	2	4	10k	PCB	0.0	-6.0	8	10			500n	200n	200n			-15	60	1	F0218	CB35
92	B1711	2	4	10k	PCB	0.0	-6.0	8	10	12	0	500n	200n	200n	150m		-15	60	1	F0217	CB35
93	DD1	2F	4†	10k	PCB	0.0	-10	4	10	28	6						-20	55	1		
94	DD31▨	2	4†Δ	10k	PCB	3.0	0.0	4	10	0	4	250n			280m	900m	0	70	1		CB10a
95	SDD1	2F	4†	10k	PCB	0.0	-8.0	4	10	12	28						-40	75	1		CB10
96	BDML	2	4	50k	PCB	-10	0.0	8	10	12	12				600m		0	50	1	F0210b	CB19
97	CC601	2	4	100k	PCB	0.0	-6.0	8	10	12	0	750n	1.0u	2.0u	220m	1.5 Δ	-45	65	1	F021	CB1
98	CI20	2H	4	100k	PCB	0.0	-6.0	6		120	12		500n†	800n†	3.2	1.5 *	-20	55	1		CB13a
99	CI21	2H	4	100k	PCB	0.0	-6.0	2		120	12		2.5u		3.0	1.5 *	-20	55	1		CB13a
100	CP20	2	4	100k	PCB	0.0	-6.0	6		120	12		500n†	800n†	3.2	1.5 *	-20	55	1		CB13a
101	CP21	2	4	100k	PCB	0.0	-6.0	2	13	120	12	3.0u	2.5u		2.7	1.5 *	-20	55	1		CB13a
102	BIP8211P	2	4Δ	100k	3DM	2.0	0.0	8†	10	0	200				800m		-20	85	1	F023	M9
103	BIP9451	2	4Δ	100k	3DM	5.0	0.0	8†	10	12	200						0	70	1		M10
104	11G538	2	4	200k	PCB	8.2	0.0	8	20	0	28	500n	200n					85	1	F0223	CB49
105	G523	2	4	250k	PCB	0.0	-6.0	10	2	12	6				1.2		-55	71	1	F0227	
106	GA523	2	4	250k	PCB	-6.0	0.0	10	2	12	6.0				1.2		-55	71	1	F0227	
107	N124	2K	4	250k	3DM	-3.0	-11	8	10	12	0				2.7		-54	65	1		M64a
108	N130	2K	4	250k	3DM	-3.0	-11	8	10	12	12				1.2		-54	65	1		M64a

7. DECODERS

IN ORDER OF (1) FROM (2) TO (3)MAX OPER FREQ
(4)PROCESS(5)LEVEL'1'(6)LEVEL'0'(7)TYPE No.

LINE No.	7 TYPE No.	DECODES 1 FROM	DECODES 2 TO	3 MAX OPERATING FREQ. (Hz)	4 PROCESS	LOGIC LEVEL 5 '1' (V)	LOGIC LEVEL 6 '0' (V)	No. OF LINES IN	No. OF LINES OUT	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	TRANSITION TIME (s)	RISE TIME tr (s)	FALL TIME tf (s)	MAX. TOTAL POWER DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	RM8421E	2	4	250k	3DM	0.0	-12	8†	10								-54	71	1	F022	M3
2	RM8421F	2	4	250k	3DM	0.0	-12	8†	10											F022a	M3
3	440Δ	2	4	300k	PCB	0.0	-6.8	4	10	12	12				2.3		0	55	1		CB24
4	441	2	4	300k	PCB	0.0	-6.8	4	10	12	12				1.9		0	55	1	F0214	CB24
5	486M	2	4	300k	PCB	0.0	-6.8	4	10	12	12				1.4		0	55	1		CB24
6	PL4G02	2	4	500k	MOS	-3.0*	-9.0%	4	10	24	0		100n	500n	100m	1.0	-55	85	1	F0219	FP34
7	4161	2	4	500k	PCB	-3.0	0.0	8	10	15	10		700n	200n	1.7	500m	-20	55	1	F0216a	CB30
8	4671	2	4†	500k	PCB	0.0	-3.0	8	10	15	10				400m	500m	-20	55	1	F0216	CB30
9	4673	2	4Δ	500k	PCB	0.0	-3.0	8	10	15	10				140m	500m	-20	55	1	F0216	CB30
10	CC701	2	4	500k	PCB	0.0	-6.0	8	10	12	0	230m	350n	350n	340m	1.5 Δ	-45	65	1	F021	CB1
11	380BG	2	4	1.0M	MON		.50†	4	10	0.0	12		250n	200n	400m	5.0 Δ	-55	125	1	F0247	CN69
12	380BJ	2	4	1.0M	MON		.50†	4	10	0.0	12		250n	200n	400m	5.0 Δ	-55	125	1	F0247	M172
13	380BN	2	4	1.0M	MON		.50†	4	10	0.0	12		250n	200n	400m	5.0 Δ	-55	125	1	F0247	M204
14	380CG	2	4	1.0M	MON		.50†	4	10	0.0	12		250n	200n	400m	5.0 Δ	-35	80	1	F0247	CN69
15	380CN	2	4	1.0M	MON		.50†	4	10	0.0	12		250n	200n	400m	5.0 Δ	-35	80	1	F0247	M204
16	MC40	2	4	1.0M	PCB	0.0	-6.2	6	10	18	18		100n	100n	4.0	2.5 *	0	55	1		CB25
17	MS40	2	4	1.0M	PCB	6.2	0.0	4	10	18	18		100n	100n	4.0	2.5	-30	100	1		CB25
18	SI30	2	4H	1.0M	PCB	0.0	-6.0	8	8	120	12	1.0u	100n†	150n†	3.6	1.5 *	-20	55	1		CB13a
19	SP30	2	4	1.0M	PCB	0.0	-6.0	8	20	120	12	1.0u	100n†	150n†	3.4	1.5 *	-20	55	1		CB13a
20	DO320	2	4%	2.0M	MOH	6.3	0.0	5	18	0.0	6.0	225nΔ			1.1		0	55	2	F0242	CB13
21	CC801	2	4	2.0M	PCB	0.0	-6.0	8	10	12	0	115n	90n	110n	480n	1.5 Δ	-45	65	1	F021	CB1
22	DD334	2	4	2.0M	PCB	0.0	-6.0	8†		6.0	12						-55	71	1	F173a	CB36
23	1161	2	4	5.0M	PCB	-3.0	0.0	8	10	15	10		90n	90n	1.7	500m	-20	85	1	F0216	CB30
24	DD330	2	4	5.0M	PCB	1.6*	1.4%	4		6	6				300m		0	55	1	F0230	
25	DD805	2	4	5.0M	PCB	2.2%	.70*	8	10	0	5	50n			1.2u	400m	0	75	2		CB⧄
26	DD5412	2	4	5.0M	PCB	2.6%	.70*	9	10	0	5	30n				1.0	0	70	1		CB56
27	IDD2266	2	4	5.0M	PCB	2.0%	1.1*	5	10	0	5	120n			440m	500m	0	75	1		CB51
28	DD905	2	4	20M	PCB	2.0%	.80*	8	10	0	5	13n			300m†	400m	0	70	2		CB⧄
29	OD335	2	8	5.0M	MOH	6.3*	1.1*	20		0	6.3				700m	1.3	0	55	1	F021	CB31
30#	T159D1	2	18		MON	1.8%	.85*	6		0.0	5.0	40nΔ			175m†		0	75	1	F0245	M199
31#	T159D2	2	18		MON	1.7%	.90*	6		0.0	5.0	40nΔ			175m†		-55	125	1	F0245	M199
32	WC237D	2	18		MON	2.1	1.1	4	7	0	6				420m		0	75	1		TO116
33	WC247D	2	18		MON	2.1	1.1	4	7	0	6				420m		0	75	1		TO116
34	WC257D	2	18		MON	2.1	1.1	4	7	0	6				420m		0	75	1		TO116
35	WM237Q	2	18		MON	2.0	1.0	4	7	0	6				400m		-55	125	1		TO86
36	WM247Q	2	18		MON	2.0	1.0	4	7	0	6				400m		-55	125	1		TO86
37	WM257Q	2	18		MON	2.0	1.0	4	7	0	6				400m		-55	125	1		TO86
38	8LMD	2	18	1.0k	PCB	-10	0.0	6	8	12	12				250m		0	50	1	F028	CB19
39	BTML	2	18	50k	PCB	-10	0.0	6	8	12	12				550m		0	50	1	F028a	CB19
40	5702	2	18	1.0M	MON	2.0%	.80*			0	5				450m		0	75	1		FP⧄
41	5703	2	18	1.0M	MON	2.0%	.80*			0	5				250m		0	75	1		FP⧄
42	5704	2	18	1.0M	MON	2.0%	.80*			0	5				450m		0	75	1		M⧄
43	5800	2	18	1.0M	MON	2.0%	.80*			0	5				250m		0	70	1		M75
44	5700	2	18	1.0M	PCB	2.0%	.80*			0	5				450m		0	75	1		CB⧄
45	5701	2	18	1.0M	PCB	2.0%	.80*			0	5				250m		0	75	1		CB⧄
46	BD809	2	18	5.0M	PCB	2.2%	.70*	8	16	0	5	50n			750m†	400m	0	75	1		CB⧄
47	BD909	2	18	20M	PCB	2.0%	.80*	8	16	0	5	13n			750m†	400m	0	70	1		CB⧄
48#	M53246P	2	20		MON	2.0%	.80*	7	7	0.0	7.0	100nΔ			265m†	1.0 Δ	0	75	1	F1710	M153b
49	RM8422	6	4	250k	3DM	0.0	-12	8†	10								-54	71	1	F061	M3
50	RM8422A	6	4	250k	3DM	0.0	-12	8†	10											F061a	M3
51	OD5414	8	18	5.0M	PCB	2.6%	.70*	7	8	0	5	30n				1.0	0	70	1		CB56
52	ND330	17	Δ	2.0M	PCB	1.5	1.2	5		0	6						0	55	1	F177	
53	ND331	17	Δ	2.0M	PCB	1.5	1.2	8		0	6						0	55	1	F178	
54#	9960-9-6A	17	2		MON	1.0%	.40*	4		0.0	4.0						0	75	1	F1716	M157
55	BIP8804-1	17J	2		3DM	2.0%	.85*	4	10		200						0	75			M9
56	BIP8804-2	17J	2		3DM	2.0%	.85*	4	10		200						0	75			M9
57	BIP8806-1	17J	2		3DM	1.0%	.50*	4	10		200						0	75			M9
58	BIP8806-2	17J	2		3DM	1.0%	.50*	4	10		200						0	75			M9
59	BIP8910-1	17J	2		3DM	2.0%	.85*	4	10		200						0	75			M137
60	BIP9801-1	17J	2		3DM	2.1%	.80*	4	10		200						-25	100			M138
61	B/BCD2Z	17	2	1.0M	PCB	0.0	-6.0	8†	8†	15	6	50u	200n	200n	1.8	1.5	0	50	1	F171	CB14
62	ND01	17Δ	4		PCB	12	0.0	8	10	12	6				300m		-10	55	1	F173	CB33
63	SN5446	17	18		MON	2.4%	.40*	7	8	0	5	100nΔ			265m	1.0	-55	125	1		M117
64	SN5447	17	18		MON	2.4%	.40*	7	8	0	5	100nΔ			265m	1.0	-55	125	1		M117
65	SN5448	17	18		MON	2.4%	.40*	7	8	0	5	100nΔ			265m	1.0	-55	125	1		M117
66	SN5449	17	18		MON	2.4%	.40*	5	7	0	5	100nΔ			165m	1.0	-55	125	1		TO84
67	SN7445	17	18		MON	2.4%	.40*	4	10	0	5	50nΔ			215m	1.0	0	70	1		M117
68	SN7446	17	18		MON	2.4%	.40*	7	8	0	5	100nΔ			265m	1.0	0	70	1		M117
69	SN7447	17	18		MON	2.4%	.40*	7	8	0	5	100nΔ			265m	1.0	0	70	1		M117
70	SN7448	17	18		MON	2.4%	.40*	7	8	0	5	100nΔ			265m	1.0	0	70	1		M117
71	SN7449	17	18		MON	2.4%	.40*	5	7	0	5	100nΔ			165m	1.0	0	70	1		TO84
72	SN74145	17	18		MON	2.4%	.40*	4	10	0	5	50nΔ			215m	1.0	0	70	1		M117
73	9337-9-4L	17	20Δ		MON	1.8%	.85*	6	8	0.0	5.2				340m%	400m	0	75	1	F175	FP47b
74	9337-9-7B	17	20Δ		MON	1.8%	.85*	6	8	0.0	5.2				340m%	400m	0	75	1	F175	M153a
75#	FJH381	18	1			2.0%	.80*	9	5	0.0	5.0	45n†Δ			250m†	400m*	0	70	1	F0148	M117u

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1#	7460-1-6A			MON	2.0%	.80*	TTL	4		0.0	5.0	25nΔ			4.0mΔ	1.0 Δ	0	70	2	G06159c	M157
2	CTuL964			MON	2.5	-.50	CTL	3†	15	20	4.5	3.0n					15	55	3		
3	CTuL965			MON	2.5	-.50	CTL	1	15	20	4.5	3.0n					15	55	4		
4	RM246		5.0M	MON	3.5	.60	DTL	2	11	0.0	6.0	38n	46n	21n	36m	550m	-55	125	4		TO84
5	IPG2267		5.0M	PCB	2.0%	1.1*	DTL	2	2	0.0	5.0	110nΔ			850m	500m	0	75	8		CB51
6	S54H11F	1			2.0%	.80*	TTL	3	10	0.0	5.0	8.8n			264m%		-55	125	3	G01197	TO116
7	S54H21F	1			2.0%	.80*	TTL	4	10	0.0	5.0	8.8n			176m%		-55	125	2	G01197a	M105r
8	LU305	1			3.3	.60		6	10	0.0	4.5	35n%			5.0mΔ		10	55	1		CN17
9	LU306	1			3.3	.60		3	10	0.0	4.5	35n%			5.0mΔ		10	55	2		CN17
10	62B4	1		MON			DTL	3		0	8						-55	125	2	G013k	TO100
11	62B4P	1		MON			DTL	3		0	8						-55	125	2	G013k	TO91
12	1254D3	1		MON			DTL	4Δ		8	8				100m		-55	125	2	G01100	CN41
13	2254D3	1		MON			DTL	4Δ		8	8				100m		-55	125	2	G01100	FP19
14#	H109	1		MON				5Δ				85n			160m†		0	75	2		M105e
15	RG3180P	1		MON			DTL	4		0.0	5	1.0n				1.1	-55	125	2		M105k
16	RG3390P	1		MON			DTL	5	11	0.0	5					1.1	-55	125	2		M105k
17	RG3392P	1		MON			DTL	5	9	0.0	5					1.1	0	75	2		M105k
18	RG3400P	1		MON			DTL	2	11	0.0	5					1.1	-55	125	4		M105k
19	RG3402P	1		MON			DTL	2	9	0.0	5					1.1	0	75	4		M105k
20	WS810Q	1		MON			DTL	7	10†	0.0	4.0				20m	250m	-55	125		G0171	FP37
21	WS812Q	1		MON			DTL	7	10†	0.0	4.0				15m	250m	-55	125	1	G0171a	FP37
22	WS814Q	1		MON			DTL	6	10†	0.0	4.0				20m	250m	-55	125	1	G0172	FP37
23	LU306A	1		MON	.15%	.30*	DTL	3	10	0.0	5.0	15n			12m†		10	55	2	G0187b	TO116
24	9005-1-3L	1		MON	1.7%	.90*	TTL	4	11	0.0	5.0	14n			64m†	400m	-55	125	2	G01188	FP47a
25	9005-1-6B	1		MON	1.7%	.90*	TTL	4	11	0.0	5.0	14n			64m†	400m	-55	125	2	G01188	M153a
26	9005A-1-3I	1		MON	1.7%	.90*	TTL	4		0.0	5.0	14n			64m†	400m	-55	125	2	G01189	FP28b
27	9005A-1-3L	1		MON	1.7%	.90*	TTL	4		0.0	5.0	14n			64m†	400m	-55	125	2	G01189	FP47a
28	9005A-1-6A	1		MON	1.7%	.90*	TTL	4		0.0	5.0	14n			64m†	400m	-55	125	2	G01189	M157
29	9005A-1-6B	1		MON	1.7%	.90*	TTL	4		0.0	5.0	14n			64m†	400m	-55	125	2	G01189	M153a
30	9008-1-3L	1		MON	1.7%	.90*	TTL	9	11	0.0	5.0	14n			55m†	400m	-55	125	2	G01190	FP47a
31	9008-1-6B	1		MON	1.7%	.90*	TTL	9	11	0.0	5.0	14n			55m†	400m	-55	125	2	G01190	M153a
32	9005-9-3L	1		MON	1.8%	.85*	TTL	4	10	0.0	5.0	14n			75m†	400m†	0	75	2	G01188	FP47a
33	9005-9-6B	1		MON	1.8%	.85*	TTL	4	10	0.0	5.0	14n			75m†	400m	0	75	2	G01188	M153a
34	9005A-9-3I	1		MON	1.8%	.85*	TTL	4		0.0	5.0	14n			75m†	400m	0	75	2	G01189	FP28b
35	9005A-9-3L	1		MON	1.8%	.85*	TTL	4		0.0	5.0	14n			75m†	400m	0	75	2	G01189	FP47a
36	9005A-9-6A	1		MON	1.8%	.85*	TTL	4		0.0	5.0	14n			75m†	400m	0	75	2	G01189	M157
37	9005A-9-6B	1		MON	1.8%	.85*	TTL	4		0.0	5.0	14n			75m†	400m	0	75	2	G01189	M153a
38	9008-9-3L	1		MON	1.8%	.85*	TTL	9	10	0.0	5.0	14n			70m†	400m	0	75	1	G01190	FP47a
39	9008-9-6B	1		MON	1.8%	.85*	TTL	9	10	0.0	5.0	14n			70m†	400m	0	75	1	G01190	M153a
40#	5408-1-6A	1		MON	2.0%	.80*	TTL	2	10	0.0	5.0	30n%			40mΔ	1.0 Δ	-55	125			
41#	5411-1-6A	1		MON	2.0%	.80*	TTL	3	10	0.0	5.0	30n%			40mΔ	1.0 Δ	-55	125			
42#	7408-9-6A	1		MON	2.0%	.80*	TTL	2	10	0.0	5.0	30n%			40mΔ	1.0 Δ	0	70			
43#	7411-9-6A	1		MON	2.0%	.80*	TTL	3	10	0.0	5.0	30n%			40mΔ	1.0 Δ	0	70			
44	SN54H11F	1		MON	2.0%	.80*	TTL	3	10	0	7	15nΔ				1.0 Δ	-55	125	3	G01153a	TO84
45	SN54H21	1		MON	2.0%	.80*	TTL	4	10	0.0	7.0	11n%			90m†	1.0 Δ	-55	125	2	G01153	TO84
46	SN54H21F	1		MON	2.0%	.80*	TTL	4	10	0	7	15nΔ				1.0 Δ	-55	125	2	G01153	TO84
47	SN74H11F	1		MON	2.0%	.80*	TTL	3	10	0	7	15nΔ				1.0 Δ	0	70	3	G01153a	TO84
48	SN74H21	1		MON	2.0%	.80*	TTL	4	10	0.0	7.0	11n%			90m†	1.0 Δ	0	70	2	G01153	TO84
49	SN74H21F	1		MON	2.0%	.80*	TTL	4	10	0	7	15nΔ				1.0 Δ	0	70	2	G01153	TO84
50	US5421A	1		MON	2.0%	.80*	TTL	4	10	0.0	7.0	15nΔ				1.0 Δ	-55	125	2	G01153	M105b
51	US5421J	1		MON	2.0%	.80*	TTL	4	10	0.0	7.0	15nΔ				1.0 Δ	-55	125	2	G01153	TO88
52	US7421A	1		MON	2.0%	.80*	TTL	4	10	0.0	7.0	15nΔ				1.0 Δ	0	70	2	G01153	M105b
53	US7421J	1		MON	2.0%	.80*	TTL	4	10	0.0	7.0	15nΔ				1.0 Δ	0	70	2	G01153	TO88
54	MC476P	1		MON	3.0%	.45*†	TTL		7	0.0	5.0	15n			60m		0	75	2	G01208	M114
55	TNG6221F	1		MON	3.0%	.45*†	TTL	4	15	0	7	12n			80m†		-55	125	2	G01165a	FP21c
56	TNG6221P	1		MON	3.0%	.45*†	TTL	4	15	0	7	12n			80m†		-55	125	2	G01165a	TO116
57	TNG6222F	1		MON	3.0%	.45*†	TTL	4	15	0	7	12n			80m†		0	75	2	G01165a	FP21c
58	TNG6222P	1		MON	3.0%	.45*†	TTL	4	15	0	7	12n			80m†		0	75	2	G01165a	TO116
59	TNG6223F	1		MON	3.0%	.45*†	TTL	4	7	0	7	12n			80m†		-55	125	2	G01165a	FP21c
60	TNG6223P	1		MON	3.0%	.45*†	TTL	4	7	0	7	12n			80m†		-55	125	2	G01165a	TO116
61	TNG6224F	1		MON	3.0%	.45*†	TTL	4	7	0	7	12n			80m†		0	75	2	G01165a	FP21c
62	TNG6224P	1		MON	3.0%	.45*†	TTL	4	7	0	7	12n			80m†		0	75	2	G01165a	TO116
63	TNG6261F	1		MON	3.0%	.45*†	TTL	4Δ	15	0	7	12n			80m†		-55	125	2	G01165	FP21c
64	TNG6261P	1		MON	3.0%	.45*†	TTL	4Δ	15	0	7	12n			80m†		-55	125	2	G01165	TO116
65	TNG6262F	1		MON	3.0%	.45*†	TTL	4Δ	15	0	7	12n			80m†		0	75	2	G01165	FP21c
66	TNG6262P	1		MON	3.0%	.45*†	TTL	4Δ	15	0	7	12n			80m†		0	75	2	G01165	TO116
67	TNG6263F	1		MON	3.0%	.45*†	TTL	4Δ	7	0.0	7.0	12n			80m†		-55	125	2	G01165f	FP18
68	TNG6263P	1		MON	3.0%	.45*†	TTL	4Δ	7	0	7	12n			80m†		-55	125	2	G01165	TO116
69	TNG6264F	1		MON	3.0%	.45*†	TTL	4Δ	7	0.0	7.0	12n			80m†		0	75	2	G01165	FP21c
70	TNG6264P	1		MON	3.0%	.45*†	TTL	4Δ	7	0	7	12n			80m†		0	75	2	G01165	TO116
71	TNG6521F	1		MON	3.0%	.45*†	TTL	5Δ	15	0	7	12n			40m†		-55	125	1	G01165c	FP21c
72	TNG6521P	1		MON	3.0%	.45*†	TTL	5Δ	15	0	7	12n			40m†		-55	125	1	G01165c	TO116
73	TNG6522F	1		MON	3.0%	.45*†	TTL	5Δ	15	0	7	12n			40m†		0	75	1	G01165c	FP21c
74	TNG6522P	1		MON	3.0%	.45*†	TTL	5Δ	15	0	7	12n			40m†		0	75	1	G01165c	TO116
75	TNG6523F	1		MON	3.0%	.45*†	TTL	5Δ	7	0	7	12n			40m†		-55	125	1	G01165c	FP21c
76	TNG6523P	1		MON	3.0%	.45*†	TTL	5Δ	7	0	7	12n			40m†		-55	125	1	G01165c	TO116
77	TNG6524F	1		MON	3.0%	.45*†	TTL	5Δ	7	0	7	12n			40m†		0	75	1	G01165c	FP21c
78	TNG6524P	1		MON	3.0%	.45*†	TTL	5Δ	7	0	7	12n			40m†		0	75	1	G01165c	TO116
79	LU305K	1		MON	3.3	.60	DTL	6	10		5.5	25n%					15	55	1	G0187	CN17
80	LU306K	1		MON	3.3	.60	DTL	3	10		5.5	25n%					15	55	2	G0187a	CN17
81	SU305G	1		MON	3.3	.60	DTL	6	10		5.5	25n%					-20	85	1	G0187	TO91
82	SU305K	1		MON	3.3	.60	DTL	6	10		5.5	25n%					-20	85	1	G0187	CN17
83	SU306G	1		MON	3.3	.60	DTL	3	10		5.5	25n%					-20	85	2	G0187a	TO91
84	SU306K	1		MON	3.3	.60	DTL	3	10		5.5	25n%					-20	85	2	G0187a	CN17
85	MEM1014	1		MOS	-10%	-2*		2		30	.30	250n			125m	1.0 *	-55	85	4	G01176	FP47
86	8207	1		TFH			DDL	5†		0	6						-55	100	3	G0116	M7
87	8208	1		TFH			DDL	3		0	6						-55	100	4	G0115	M7
88	8209	1		TFH			DDL	3		0	6						-55	100	3	G0114	M7
89	8210	1		TFH			DDL	6†		0	6						-55	100	2	G0113	M7
90	RG180P	1	20	MON	3.4	.20	TTL	4		0.0	5.0	1.0n			2.0m†	1.1	-55	125	2		M105k
91	RG181P	1	20	MON	3.4	.20	TTL	4		0.0	5.0	1.0n			2.0m†	1.1	-55	125	2		M105k
92	RG182P	1	20	MON	3.4	.20	TTL	4		0.0	5.0	1.0n			2.0m†	1.1	0	75	2		M105k
93	RG183P	1	20	MON	3.4	.20	TTL	4		0.0	5.0	1.0n			2.0m†	1.1	0	75	2		M105k
94	B651	1	1.0k	PCB	-6.0	0.0	DTL	3	4	12	0.0				220m	2.0	-15	60	2	G0169	CB22
95	B653	1	1.0k	PCB	-6.0	0.0	DDL	3	4								-15	60	2	G01115	CB22
96	T612	1	10k	3DM	-3.0	-11		7									-54	71	1	G0143	M17
97	DC01CSAN3	1	20k	PCB	6.0	0.0		3	4	12	12	500n	1.0u	1.0u		1.0	-55	100	4	G013a	
98	DC01CSAN8	1	20k	PCB	6.0	0.0		8	4	12	12	500n	1.0u	1.0u		1.0	-55	100	2		
99	DC01CSXAN3	1	20k	PCB	6.0	0.0		3	4	12	12	500n	1.0u	1.0u		1.0	-55	100	4		
100	DC01CSXAN8	1	20k	PCB	6.0	0.0		8	4	12	12	500n	1.0u	1.0u		1.0	-55	100	2	G011a	
101	DC01CAN3	1	20k	PCB	-6.0	0.0		3	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	4		
102	DC01CAN8	1	20k	PCB	-6.0	0.0		8	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	2		
103	DC01CXAN3	1	20k	PCB	-6.0	0.0		3	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	4		
104	DC01CXAN8	1	20k	PCB	-6.0	0.0		8	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	2		
105	DC01MAN8	1	20k	PCB	-6.0	0.0		8	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	1		
106	DC01MSAN3	1	20k	PCM	6.0	0.0		3	4	12	12	500n	1.0u	1.0u		1.0	-55	100	2		
107	DC01MSAN8	1	20k	PCM	6.0	0.0		8	4	12	12	500n	1.0u	1.0u		1.0	-55	100	1		
108	DC01MAN3	1	20k	PCM	-6.0	0.0		3	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	2		
109	MG31-62	1	50k	PCB	-6.0	0.0		4	4	12	12	500n					0	50	8		CB26
110	DC1CAN3	1	100k	PCB	-6.0	0.0		3	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	4		

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC			FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (s)	MAX.		MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP.		CKT PER MOD	DRAWINGS	
					LEVEL 4 '1' (V)	LEVEL 5 '0' (V)	TYPE	IN	OUT	NEG. (V)	POS. (V)		RISE TIME tr (s)	FALL TIME tf (s)			LOW °C	HI °C		LOGIC DWG. No	OUTLINE DWG. No Δ=MO
1	DC1CAN8	1	100k	PCB	-6.0	0.0		8	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	2		
2	DC1CSN4	1	100k	PCB	-6.0	0.0		2	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	8		
3	DG681	1	100k	PCB	-6.0	0.0	RDL	4†		12	6.0	750n	1.0u	2.0u	170m	1.5 Δ	-45	65	8	G01127	CB1
4	G327	1	100k	PCB	-6.0	0.0	RCT	3	1	12	0.0	100n	600n	1.4u	960m		-55	71	6		CB16
5	G328	1	100k	PCB	-6.0	0.0	RCT	4	3	12	6.0	800n	600n	1.4u	810m	1.0	-55	71	4		CB16
6	GA327	1	100k	PCB	-6.0	0.0	DCT	3	1	12	0.0	100n	600n	1.4u	960m		-55	71	6		CB16
7	GA328	1	100k	PCB	-6.0	0.0	RCT	4	3	12	6.0	800n	600n	1.4u	810m	1.0 *	-55	71	4		CB16
8	DC1MAN3	1	100k	PCM	-6.0	0.0		3	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	2		
9	DC1MAN8	1	100k	PCM	-6.0	0.0		8	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	1		
10	DC1MSN4	1	100k	PCM	-6.0	0.0		2	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	4	G011a	
11	EM5008	1	100k	3DM	0.0	-6.0	CDL	2	1	0.0	0.0						-55	70	5	G01139	M62c
12	EM5009	1	100k	3DM	0.0	-6.0	CDL	2	1	0.0	0.0						-55	70	4	G01140	M62b
13	B893000	1	100k	3DM	-6.0	0.0	DDL	3		6.0	0.0						-20	60	2	G013a	M4
14	B893001	1	100k	3DM	-6.0	0.0	DDL	2		6.0	0.0						-20	60	2	G013b	M4
15	AG11-1	1	100k	3DM	-12	0.0	DDL	3	6	12	0.0	100n	50n	100n	120m	2.0	-35	65	1	G0158a	M15
16	AG11-2	1	100k	3DM	-12	0.0	DDL	5	6	12	0.0	100n	50n	100n	120m	2.0	-35	65	1	G0158b	M15
17	AG11-3	1	100k	3DM	-12	0.0	DDL	9	6	12	0.0	100n	50n	100n	120m	2.0	-35	65	1	G0158c	M15
18	AG12-1	1	100k	3DM	-12	0.0	DDL	2	6	12	0.0	100n	50n	100n	240m	2.0	-35	65	1	G0159	M15
19	AG12-2	1	100k	3DM	-12	0.0	DDL	4	6	12	0.0	100n	50n	100n	240m	2.0	-35	65	1	G0160	M15
20	AG13-1	1	100k	3DM	-12	0.0	DDL	2	6	12	0.0	100n	50n	100n	360m	2.0	-35	65	1	G0161	M15
21	AG14-1	1	100k	3DM	-12	0.0	DDL	3	6	12	0.0	100n	50n	100n	480m	2.0	-35	65	1	G0162	M15
22	AO11-1	1	100k	3DM	-12	0.0	DDL	4	6	12	12	100n	100n	200n	260m	2.0	-35	65	1	G01132	
23	DM11-1	1	100k	3DM	-12	0.0	DDL	6	5	12	0.0	100n	50n	100n	400m	2.0	-35	65	1	G0129	M15
24	DM11-2	1	100k	3DM	-12	0.0	DDL	5	5	12	0.0	100n	50n	100n	400m	2.0	-35	65	1	G0130	M15
25	DM11-3	1	100k	3DM	-12	0.0	DDL	4	5	12	0.0	100n	50n	100n	400m	2.0	-35	65	1	G0131	M15
26	DM11-4	1	100k	3DM	-12	0.0	DDL	6	5	12	0.0	100n	50n	100n	400m	2.0	-35	65	1	G0132	M15
27	11G2321	1	200k	PCB	8.2	0.0		4		0.0	28	500n	200n					85	6	G013j	CB49
28	11G3372	1	200k	PCB	8.2	0.0		2		0.0	28	500n	1.0u					85	10	G01147	CB49
29	A26M	1	200k	PCB	-10	0.0	DTL	2		12	0.0				100m		0	50	6	G0164	CB19
30	A35M	1	200k	PCB	-10	0.0	DTL	3		12	0.0				80m		0	50	5	G0165	CB19
31	A44M	1	200k	PCB	-10	0.0	DTL	4		12	0.0				60m		0	50	4	G0166	CB19
32	GDG2-.2	1	200k	PCB	-10	0.0	DTL	3†	10	12	0.0	10n	1.0u	1.0u	156m		0	55	8	G01136	CB15
33	GGD1-.2	1	200k	PCB	-10	0.0	DTL	3†	50	12	6.0	500n	300n	300n	3.7	2.0	0	55	10	G01148	CB15
34	CT410A3	1	250k	PCB	-3.0	-11	DTL	3	2	12	12		250n		156m		-45	65	3		CB16
35	CT411-3	1	250k	PCB	-3.0	-11	DTL	5	1	12	0.0	400n	400n		216m		-45	65	3		CB16
36	CT413-3	1	250k	PCB	-3.0	-11	DTL	4	1	12	12		250n		156m		-45	65	3		CB16
37	CT434-3	1	250k	PCB	-3.0	-11	DTL	2		12	12		1.0u		312m			65	3		CB16
38	CT439-4	1	250k	PCB	-3.0	-11	DTL	3	1	12	12				260m		-45	71	4		CB16
39	CT448-2	1	250k	PCB	-3.0	-11	DTL	2	1	12	0.0	400n	400n		432m		-45	65	4		CB16
40	CT601-2	1	250k	PCB	-3.0	-11	DTL	2	1	12	0.0	400n	400n		144m		-45	65	2		CB16
41	CT641-2	1	250k	PCB	-3.0	-11	DTL	2	1	12	12				260m		-54	71	4		CB16
42	CT650-2	1	250k	PCB	-3.0	-11	TTL	3	1	12	12				260m		-54	71	4		CB16
43	DG232	1	250k	3DM	0.0	-6.0	RDL	2	4	12	12						-54	71	4	G011a	M2
44	DG239	1	250k	3DM	0.0	-6.0	RDL	2		12	12						-54	71	4	G012	M2
45	EM2508	1	250k	3DM	0.0	-6.0	RDL	3	1	0.0	6.0				25m	500m	-55	71	2	G013g	M62b
46	EM2508A	1	250k	3DM	0.0	-6.0	RDL	5	1	0.0	6.0				6.6m	500m	-55	71	1	G013h	M62b
47	EM2517	1	250k	3DM	0.0	-6.0	CDL	3					200n				-55	71	2	G01138	M62b
48	T404	1	250k	3DM	-3.0	-11	DTL	2		12	12				310m		-45	65	2	G0151	M17
49	T405	1	250k	3DM	-3.0	-11	DTL	2		12	12				310m		-45	65	1	G0150	M17
50	T410A	1	250k	3DM	-3.0	-11	DTL	2		12	12		250n				-45	65	2	G0148	M17
51	T411	1	250k	3DM	-3.0	-11	DTL	4		12		400n	400n		72m		-45	65	1	G0147	M17
52	T413	1	250k	3DM	-3.0	-11	DTL	4		12	12		250n		52m		-45	65	1	G0146	M17
53	T432	1	250k	3DM	-3.0	-11	DTL	2		12	12		1.0u		310m		-45	65	2	G01119	M17
54	T433	1	250k	3DM	-3.0	-11	DTL	2		12	12		1.0u		260m		-45	65	2	G01120	M17
55	T434	1	250k	3DM	-3.0	-11	DTL	2		12	12		1.0u		312m		-45	65	2	G01121	M17
56	T439	1	250k	3DM	-3.0	-11	DTL	3		12	12		250n		260m		-54	71	1	G0153	M17
57	T447	1	250k	3DM	-3.0	-11	DTL	2		12		400n	400n		108m		-45	65	1	G0149	M17
58	T448	1	250k	3DM	-3.0	-11	DTL	2		12		400n	400n		216m		-45	65	2	G0145	M17
59	T601	1	250k	3DM	-3.0	-11	DTL	8		12		400n	400n		72m		-45	65	1	G0144	M17
60	T613	1	250k	3DM	-3.0	-11	DTL	13		12	12		1.0u				-45	65	1	G0142	M17
61	T620	1	250k	3DM	-3.0	-11	DTL	3		12	12		1.0u		310m		-45	65	1	G0141	M17
62	T621	1	250k	3DM	-3.0	-11	DTL	7		12	12		1.0u		310m		-45	65	1	G01126	M17
63	T622	1	250k	3DM	-3.0	-11	DTL	10		12	12		1.0u		310m		-45	65	1	G0140	M17
64	T627	1	250k	3DM	-3.0	-11	DTL	10		12	12		1.0u		310m		-45	65	1	G0140	M17
65	T637	1	250k	3DM	-3.0	-11	DTL	2	1	12	12	200n	250n		52m		-45	65	2	G0139	M17
66	T641	1	250k	3DM	-3.0	-11	TTL	2	1	12	12				260m		-54	71	2	G0138	M17
67	T650	1	250k	3DM	-3.0	-11	TTL	3	1	12	12		250n		260m		-54	71	2	G0137	M17
68	T653	1	250k	3DM	-3.0	-11	TTL	2		12	12		200n		345m		-54	71	2	G01122	M17
69	PM8343	1	250k	3DM	-6.5	0.0	DTL	5		18	6.0								1	G0174	ZB37
70	PM8353	1	250k	3DM	-6.5	0.0	DTL	3		18	6.0								2	G0174a	ZB37
71	SRG23	1	300k	PCB	0.0	8.0	RDL	4		0.0	12						-40	75	6	G013c	
72	RG23	1	300k	PCB	-10	0.0	RDL	4	Δ	12	0.0						-20	55	6	G013c	CB10
73	DG781	1	500k	PCB	-6.0	0.0	RDL	4†	Δ	12	6.0	230n	350n	350n	290m	1.5 Δ	-45	65	8	G01127	CB1
74	G701	1	500k	PCB	-6.0	0.0	RDL			12	0.0				120m		-55	71	2	G01123	CB16
75	G702	1	500k	PCB	-6.0	0.0	RDL			12	0.0				240m		-55	71	2	G01124	CB16
76	G703	1	500k	PCB	-6.0	0.0	RDL			12	0.0						-55	71	1		CB16
77	G704	1	500k	PCB	-6.0	0.0	RDL			12	0.0				240m		-55	71	1	G01125	CB16
78	G705	1	500k	PCB	-6.0	0.0	RDL			12	0.0				300m		-55	71	1		CB16
79	G706	1	500k	PCB	-6.0	0.0	RDL			12	0.0				300m		-55	71	1		CB16
80	G721	1	500k	PCB	-6.0	0.0	RDL			12	0.0				240m		-55	71			CB16
81	GA701	1	500k	PCB	-6.0	0.0	RDL			12	0.0				120m		-55	71	2	G01123	CB16
82	GA702	1	500k	PCB	-6.0	0.0	RDL			12	0.0				240m		-55	71	2	G01124	CB16
83	GA703	1	500k	PCB	-6.0	0.0	RDL										-55	71	1		CB16
84	GA704	1	500k	PCB	-6.0	0.0	RDL			12	0.0				240m		-55	71	1	G01125	CB16
85	GA705	1	500k	PCB	-6.0	0.0	RDL			12	0.0				300m		-55	71			CB134c
86	GA706	1	500k	PCB	-6.0	0.0	RDL			12	0.0				300m		-55	71			CB16
87	GA721	1	500k	PCB	-6.0	0.0	RDL			12	0.0				240m		-55	71			CB16
88	DG332	1	500k	3DM	0.0	6.0	RDL	2		12							-25	125	4	G011	M2
89	PM8223	1	500k	3DM	-6.5	0.0	DTL			18	6.0								1		ZB37
90	DBAO1031ZA	1	1.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	0	50	3	G013m	M52
91	DBAO1031ZAN	1	1.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	0	50	3	G013m	MP52a
92	DBAO1031ZB	1	1.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-20	75	3	G013m	M52
93	DBAO1031ZBN	1	1.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-20	75	3	G013m	MP52a
94	DBAO1031ZC	1	1.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-40	100	3	G013m	M52
95	DBAO1031ZCN	1	1.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-40	100	3	G013m	MP52a
96	DBAO1031ZD	1	1.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-55	125	3	G013m	M52
97	DBAO1031ZDN	1	1.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-55	125	3	G013m	MP52a
98	DBAO1032ZA	1	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	0	50	4	G0194	M52
99	DBAO1032ZAN	1	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	0	50	4	G0194	MP52a
100	DBAO1032ZB	1	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-20	75	4	G0194	M52
101	DBAO1032ZBN	1	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-20	75	4	G0194	MP52a
102	DBAO1032ZC	1	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-40	100	4	G0194	M52
103	DBAO1032ZCN	1	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-40	100	4	G0194	MP52a
104	DBAO1032ZD	1	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-55	125	4	G0194	M52
105	DBAO1032ZDN	1	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-55	125	4	G0194	MP52a
106	DBAO1034ZA	1	1.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	0	50	7	G0195	M52
107	DBAO1034ZAN	1	1.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	0	50	7	G0195	MP52a
108	DBAO1034ZB	1	1.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-20	75	7	G0195	M52
109	DBAO1034ZBN	1	1.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-20	75	7	G0195	MP52a
110	DBAO1034ZC	1	1.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-40	100	7	G0195	M52

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPER-ATING FREQ. (Hz)	3 PRO-CESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPA-GATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	DBA01034ZCN	1	1.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-40	100	7	G0195	MP52a
2	DBA01034ZD	1	1.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-55	125	7	G0195	M52
3	DBA01034ZDN	1	1.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-55	125	7	G0195	MP52a
4	DCA01031ZA	1	1.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	0	50	3	G013m	CB29
5	DCA01031ZB	1	1.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-20	75	3	G013m	CB29
6	DCA01031ZC	1	1.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-40	100	3	G013m	CB29
7	DCA01031ZD	1	1.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-55	125	3	G013m	CB29
8	DCA01032ZA	1	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	0	50	4	G0194	CB29
9	DCA01032ZB	1	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-20	75	4	G0194	CB29
10	DCA01032ZC	1	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-40	100	4	G0194	CB29
11	DCA01032ZD	1	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-55	125	4	G0194	CB29
12	DCA01034ZA	1	1.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	0	50	7	G0195	CB29
13	DCA01034ZB	1	1.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-20	75	7	G0195	CB29
14	DCA01034ZC	1	1.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-40	100	7	G0195	CB29
15	DCA01034ZD	1	1.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-55	125	7	G0195	CB29
16#	GDH106	1	1.0M	MOS	-10%	-2.0*		2		-27	-13						-55	85	4	G01160b	FP47d
17	CT802-2	1	1.0M	PCB	-3.0	-11	TTL	2	1	12	12				260m		-45	65	4		CB16
18	IC200	1	1.0M	PCB	10	0.0	RDL	3Δ		0.0	12				32m		-55	100	8	G0163	CB15
19	DG200	1	1.0M	PCB	10	1.0	RDL	3†		0.0	12				264m		-55	100	8	G0128	CB15
20	A26H	1	1.0M	PCB	-10	0.0	DTL	2		12	0.0				180m		0	50	6	G0164	CB19
21	A35H	1	1.0M	PCB	-10	0.0	DTL	3		12	0.0				150m		0	50	5	G0165	CB19
22	A44H	1	1.0M	PCB	-10	0.0	DTL	4		12	0.0				120m		0	50	4	G0166	CB19
23	GDG2-1	1	1.0M	PCB	-10	0.0	DTL	3†	10	12	0.0	10n	250n	250n	156m		0	55	8	G01136	CB15
24	RG3	1	1.0M	PCB	-10	0.0	RDL	4	Δ	12	0						-20	55	6	G013c	CB10
25	PM7063	1	1.0M	3DM			DTL	6		6	6								1		ZB37
26	MM10883	1	1.0M	3DM	6.0	0.0	DTL	5		6	18								2		MP38
27	MM10903	1	1.0M	3DM	6.0	0.0	DTL	5		6	18								1		MP38
28	MM10913	1	1.0M	3DM	6.0	0.0	DTL	3		6	18								2		MP38
29	MM10923	1	1.0M	3DM	6.0	0.0	DTL	3		6	18								1		MP38
30	T309	1	1.0M	3DM	-3.0	-11	TTL	3		12	12				260m		-54	71	1	G0153	M17
31	T318	1	1.0M	3DM	-3.0	-11	DTL	2		12	12	200n	20n		420m		-55	71	1	G0152	M17
32	T802	1	1.0M	3DM	-3.0	-11	TTL	2	1	12	12		200n		260m		-45	65	2	G0138	M17
33	PM7663	1	1.0M	3DM	-6.5	0.0	DTL	5		18	6								1	G0176	ZB37
34	PM7683	1	1.0M	3DM	-6.5	0.0	DTL	3		18	6								2	G0176a	ZB37
35	PM7783	1	1.0M	3DM	-6.5	0.0	DTL	6		18	6								1		ZB37
36	PM8383	1	1.0M	3DM	-6.5	0.0	DTL	5		18	6								1	G0175	ZB37
37	PM8393	1	1.0M	3DM	-6.5	0.0	DTL	3		18	6								2	G0175a	ZB37
38	PM9283	1	1.0M	3DM	-6.5	0.0	DTL	5		18	6								1		ZB37
39	PM9583	1	1.0M	3DM	-6.5	0.0	DTL	6		18	6								1		ZB37
40	PM10703	1	1.0M	3DM	-6.5	0.0	DTL			18	6								2		ZB37
41	PM10713	1	1.0M	3DM	-6.5	0.0	DTL	4		18	6								1		ZB37
42	SRG3	1	1.5M	PCB	0.0	8.0	RDL	4	Δ	0	12						-40	75	6	G013c	CB10
43	LCE208	1	2.0M	MOH	-6.0	0.0†		5		12	6	20n					-10	55	1		CN27
44	DC2CSAN3	1	2.0M	PCB	6.0	0.0		3	6	18	18	50n	150n	250n		1.2	-55	100	4		
45	DC2CSAN8	1	2.0M	PCB	6.0	0.0		8	6	18	18	50n	150n	250n		1.2	-55	100	2		
46	DC2CSSN4	1	2.0M	PCB	6.0	0.0		2	6	18	18	50n	150n	250n		1.2	-55	100	8		
47	DC2CAN3	1	2.0M	PCB	-6.0	0.0		3	6	18	18	50n	150n	250n		1.2	-55	55	4		
48	DC2CAN8	1	2.0M	PCB	-6.0	0.0		8	6	18	18	50n	150n	250n		1.2	-55	55	2		
49	DC2CSN4	1	2.0M	PCB	-6.0	0.0		2	6	18	18	50n	150n	250n		1.2	-55	55	8		
50	DG881	1	2.0M	PCB	-6.0	0.0	RDL	4†	Δ	12	6	115n	90n	110n	390m	1.5 Δ	-45	65	8	G01127	CB1
51	DC2MSAN3	1	2.0M	PCM	6.0	0.0		3	6	18	18	50n	150n	250n		1.2	-55	100	2		
52	DC2MSAN8	1	2.0M	PCM	6.0	0.0		8	6	18	18	50n	150n	250n		1.2	-55	100	1		
53	DC2MSSN4	1	2.0M	PCM	6.0	0.0		2	6	18	18	50n	150n	250n		1.2	-55	100	4	G011a	
54	DC2MAN3	1	2.0M	PCM	-6.0	0.0		3	6	18	18	50n	150n	250n		1.2	-55	55	2		
55	DC2MAN8	1	2.0M	PCM	-6.0	0.0		8	6	18	18	50n	150n	250n		1.2	-55	55	1		
56	DC2MSN4	1	2.0M	PCM	-6.0	0.0		2	6	18	18	50n	150n	250n		1.2	-55	55	4	G011a	
57	EM2617	1	2.0M	3DM	0.0	6.0	CDL	3		0	0		50n				-55	71	2	G01138	M62b
58	EM3008	1	2.0M	3DM	0.0	6.0	RDL	3	2	6	12	10n	100n	10n	84m	500m	-55	125	2	G01143	M62c
59	EM3008C	1	2.0M	3DM	0.0	6.0	RDL	5	2	6	12	10n	100n	10n	84m	500m	-55	125	2	G01142	M62a
60	EM3017	1	2.0M	3DM	0.0	6.0	RDL	2	1	6	12	300n	60n			1.5	-55	125	4	G01144	M62a
61	EM2608	1	2.0M	3DM	0.0	-6.0	RDL	3	1	0	6			10n	15m	500m	-55	71	2	G013g	M62b
62	EM2608A	1	2.0M	3DM	0.0	-6.0	RDL	5	1	0	6			10n	15m	500m	-55	71	1	G013h	M62b
63	AG21-1	1	2.0M	3DM	12	0.0	DDL	3	5	0.0	12	10n	50n	20n	60m	2.0	-35	125	1	G01131c	M16
64	AG21-2	1	2.0M	3DM	12	0.0	DDL	3	5	0.0	12	10n	50n	20n	60m	2.0	-35	125	1	G01131a	M16
65	AG21-3	1	2.0M	3DM	12	0.0	DDL	9	5	0.0	12	10n	50n	20n	60m	2.0	-35	125	1	G01131	M16
66	AG22-1	1	2.0M	3DM	12	0.0	DDL	2	5	0.0	12	10n	50n	20n	120m	2.0	-35	125	2	G01131d	M16
67	AG22-2	1	2.0M	3DM	12	0.0	DDL	4	5	0.0	12	10n	50n	20n	120m	2.0	-35	125	2	G01131b	M16
68	AG23-1	1	2.0M	3DM	12	0.0	DDL	3	5	0.0	12	10n	50n	20n	180m	2.0	-35	125	3	G01131e	M16
69	AG24-1	1	2.0M	3DM	12	0.0	DDL	3	5	0.0	12	10n	50n	20n	240m	2.0	-35	125	2	G0162a	M16
70	AO21-1	1	2.0M	3DM	12	0.0	DDL	4	5	12	12	100n	50n	20n	100m	2.0	-35	125	1	G01132a	
71	RG3A	1	3.0M	PCB	-10	0.0	RDL	4	Δ	12	0						-20	55	6	G013c	CB10
72	DBA01031YA	1	5.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	0	50	3	G013m	M52
73	DBA01031YAN	1	5.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	0	50	3	G013m	MP52a
74	DBA01031YB	1	5.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-20	75	3	G013m	M52
75	DBA01031YBN	1	5.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-20	75	3	G013m	MP52a
76	DBA01031YC	1	5.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-40	100	3	G013m	M52
77	DBA01031YCN	1	5.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-40	100	3	G013m	MP52a
78	DBA01031YD	1	5.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-55	125	3	G013m	M52
79	DBA01031YDN	1	5.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-55	125	3	G013m	MP52a
80	DBA01032YA	1	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	0	50	4	G0194	M52
81	DBA01032YAN	1	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	0	50	4	G0194	MP52a
82	DBA01032YB	1	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-20	75	4	G0194	M52
83	DBA01032YBN	1	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-20	75	4	G0194	MP52a
84	DBA01032YC	1	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-40	100	4	G0194	M52
85	DBA01032YCN	1	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-40	100	4	G0194	MP52a
86	DBA01032YD	1	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-55	125	4	G0194	M52
87	DBA01032YDN	1	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-55	125	4	G0194	MP52a
88	DBA01034YA	1	5.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	0	50	7	G0195	M52
89	DBA01034YAN	1	5.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	0	50	7	G0195	MP52a
90	DBA01034YB	1	5.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-20	75	7	G0195	M52
91	DBA01034YBN	1	5.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-20	75	7	G0195	MP52a
92	DBA01034YC	1	5.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-40	100	7	G0195	M52
93	DBA01034YCN	1	5.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-40	100	7	G0195	MP52a
94	DBA01034YD	1	5.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-55	125	7	G0195	M52
95	DBA01034YDN	1	5.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-55	125	7	G0195	MP52a
96	DCA01031YA	1	5.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	0	50	3	G013m	CB29
97	DCA01031YB	1	5.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-20	75	3	G013m	CB29
98	DCA01031YC	1	5.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-40	100	3	G013m	CB29
99	DCA01031YD	1	5.0M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-55	125	3	G013m	CB29
100	DCA01032YA	1	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	0	50	4	G0194	CB29
101	DCA01032YB	1	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-20	75	4	G0194	CB29
102	DCA01032YC	1	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-40	100	4	G0194	CB29
103	DCA01032YD	1	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-55	125	4	G0194	CB29
104	DCA01034YA	1	5.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	0	50	7	G0195	CB29
105	DCA01034YB	1	5.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-20	75	7	G0195	CB29
106	DCA01034YC	1	5.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-40	100	7	G0195	CB29
107	DCA01034YD	1	5.0M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-55	125	7	G0195	CB29
108	G601	1	5.0M	PCB	-6.0	0.0	RDL			12	0				340m		-55	71	2	G01123	CB16
109	G602	1	5.0M	PCB	-6.0	0.0	RDL			12	0				340m		-55	71	2	G01124	CB16
110	G603	1	5.0M	PCB	-6.0	0.0	RDL			12	0				840m		-55	71			CB16

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	G604	1	5.0M	PCB	-6.0	0.0	RDL			12	0				480m		-55	71	1	G01125	CB16
2	G605	1	5.0M	PCB	-6.0	0.0	RDL			12	0				600m		-55	71	1		CB16
3	G606	1	5.0M	PCB	-6.0	0.0	RDL			12	0				600m		-55	71	1		CB16
4	G621	1	5.0M	PCB	-6.0	0.0	RDL			12	0				680m		-55	71			CB16
5	GA601	1	5.0M	PCB	-6.0	0.0	RDL			12	0.0				340m		-55	71	2	G01123	CB16
6	GA602	1	5.0M	PCB	-6.0	0.0	RDL			12	0.0				340n		-55	71	2	G01124	CB16
7	GA603	1	5.0M	PCB	-6.0	0.0	RDL			12	0.0				840m		-55	71			CB16
8	GA604	1	5.0M	PCB	-6.0	0.0	RDL			12	0.0				480m		-55	71	1	G01125	CB16
9	GA605	1	5.0M	PCB	-6.0	0.0	RDL			12	0.0				600m		-55	71			CB16
10	GA606	1	5.0M	PCB	-6.0	0.0	RDL			12	0.0				600m		-55	71			CB16
11	GA621	1	5.0M	PCB	-6.0	0.0	RDL			12	0.0				680m		-55	71		G01126	CB16
12	GDG2-5	1	5.0M	PCB	-10	0.0	DTL	3†	10	12	0.0	10n	60n	60n	360m		0	55	8	G01136	CB15
13	DG432	1	5.0M	3DM	0.0	-6.0	RDL	2		12	12						-25	60	4	G011a	M2
14	RG4	1	8.0M	PCB	-10	0.0	RDL	4	Δ	12	0						-20	55	6	G013c	CB10
15	DBAO1031XA	1	10M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	0	50	3	G013m	M52
16	DBAO1031XAN	1	10M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	0	50	3	G013m	MP52a
17	DBAO1031XB	1	10M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-20	75	3	G013m	M52
18	DBAO1031XBN	1	10M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-20	75	3	G013m	MP52a
19	DBAO1031XC	1	10M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-40	100	3	G013m	M52
20	DBAO1031XCN	1	10M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-40	100	3	G013m	MP52a
21	DBAO1031XD	1	10M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-55	125	3	G013m	M52
22	DBAO1031XDN	1	10M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-55	125	3	G013m	MP52a
23	DBAO1032XA	1	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	0	50	4	G0194	M52
24	DBAO1032XAN	1	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	0	50	4	G0194	MP52a
25	DBAO1032XB	1	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-20	75	4	G0194	M52
26	DBAO1032XBN	1	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-20	75	4	G0194	MP52a
27	DBAO1032XC	1	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-40	100	4	G0194	M52
28	DBAO1032XCN	1	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-40	100	4	G0194	MP52a
29	DBAO1032XD	1	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-55	125	4	G0194	M52
30	DBAO1032XDN	1	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-55	125	4	G0194	MP52a
31	DBAO1034XA	1	10M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	0	50	7	G0195	M52
32	DBAO1034XAN	1	10M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	0	50	7	G0195	MP52a
33	DBAO1034XB	1	10M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-20	75	7	G0195	M52
34	DBAO1034XBN	1	10M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-20	75	7	G0195	MP52a
35	DBAO1034XC	1	10M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-40	100	7	G0195	M52
36	DBAO1034XCN	1	10M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-40	100	7	G0195	MP52a
37	DBAO1034XD	1	10M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-55	125	7	G0195	M52
38	DBAO1034XDN	1	10M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-55	125	7	G0195	MP52a
39	DCAO1031XA	1	10M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	0	50	3	G013m	CB29
40	DCAO1031XB	1	10M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-20	75	3	G013m	CB29
41	DCAO1031XC	1	10M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-40	100	3	G013m	CB29
42	DCAO1031XD	1	10M		6.0	1.0†	DDL	12		0.0	12	10n	10n	10n		350m	-55	125	3	G013m	CB29
43	DCAO1032XA	1	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	0	50	4	G0194	CB29
44	DCAO1032XB	1	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-20	75	4	G0194	CB29
45	DCAO1032XC	1	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-40	100	4	G0194	CB29
46	DCAO1032XD	1	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-55	125	4	G0194	CB29
47	DCAO1034XA	1	10M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	0	50	7	G0195	CB29
48	DCAO1034XB	1	10M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-20	75	7	G0195	CB29
49	DCAO1034XC	1	10M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-40	100	7	G0195	CB29
50	DCAO1034XD	1	10M		6.0	1.0†	DDL	7		0.0	12	10n	10n	10n		350m	-55	125	7	G0195	CB29
51	BT31	1	10M	PCB	4.0	0.0	DTL	2†	14	0	8	30n	5.0n	5.0n	1.6	1.5	5	71	14		CB37a
52	DC10CAN3	1	10M	PCB	-6.0	0.0		3	4	18	18	25n	50n	80n		1.2	-55	55	4		
53	DC10CAN8	1	10M	PCB	-6.0	0.0		8	4	18	18	25n	50n	80n		1.2	-55	55	2		
54	DC10CSN4	1	10M	PCB	-6.0	0.0		2	4	18	18	25n	50n	80n		1.2	-55	55	8		
55	DG981	1	10M	PCB	-6.0	0.0	RDL	4†	Δ	12	6	25n	26n	30n	480m	1.5 Δ	-45	65	8	G01127	CB1
56	G401	1	10M	PCB	-6.0	0.0	RDL			12	0				480m		-55	71	2	G01123	CB16
57	G402	1	10M	PCB	-6.0	0.0	RDL			12	0				960m		-55	71	2	G01124	CB16
58	G404	1	10M	PCB	-6.0	0.0	RDL			12	0				960m		-55	71	1	G01125	CB16
59	G405	1	10M	PCB	-6.0	0.0	RDL			12	0				1.2		-55	71	1		CB16
60	G406	1	10M	PCB	-6.0	0.0	RDL			12	0				1.2		-55	71	1		CB16
61	G421	1	10M	PCB	-6.0	0.0	RDL			12	0				960m		-55	71			CB16
62	GA401	1	10M	PCB	-6.0	0.0	RDL			12	0.0				480m		-55	71	2	G01123	CB16
63	GA402	1	10M	PCB	-6.0	0.0	RDL			12	0.0				960m		-55	71	2	G01124	CB16
64	GA404	1	10M	PCB	-6.0	0.0	RDL			12	0.0				960m		-55	71	1	G01125	CB16
65	GA405	1	10M	PCB	-6.0	0.0	RDL			12	0.0				1.2		-55	71			CB16
66	GA406	1	10M	PCB	-6.0	0.0	RDL			12	0.0				1.2		-55	71			CB16
67	GA421	1	10M	PCB	-6.0	0.0	RDL			12	0.0				960m		-55	71			CB16
68	DC10MAN3	1	10M	PCM	-6.0	0.0		3	4	18	18	25n	50n	80n		1.2	-55	55	2		
69	DC10MAN8	1	10M	PCM	-6.0	0.0		8	4	18	18	25n	50n	80n		1.2	-55	55	1		
70	DC10MSN4	1	10M	PCM	-6.0	0.0		2	4	18	18	25n	50n	80n		1.2	-55	55	4	G011a	
71	MM10383	1	10M	3DM	6.0	0.0	DTL	3		18	6	25n	40n				-54	125	1		MP38
72	MM10383D	1	10M	3DM	6.0	0.0	DTL	3		18	6	25n	40n				-54	125	2		MP38
73	AG31-1	1	10M	3DM	-12	0.0	DDL	3	5	12		10n	10n	50n	120m	2.0	-35	65	1	G0158	M15
74	AG32-1	1	10M	3DM	-12	0.0	DDL	2	5	12		10n	10n	50n	240m	2.0	-35	65	2	G0159	M15
75	MMCA2004	1	15M		2.5	.25	DDL	3				10n				350m	-55	125	2	G0198	FP13
76	MMSC2002	1	15M		2.5	.25	CDL	2								350m	-55	125	2	G0197	FP13
77	MMAO2003	1	15M		2.5	.50†	CDL	6		0	3	10n				350m	-55	125	1	G0196	FP13
78	MMAO2005	1	15M		2.5	.50†	DDL	3		0	3	10n				350m	-55	125	2	G0199	FP13
79	MC203F	1	15M	MON	4.0	.30	DTL	6		8	8						-55	125	1	G013	TO91
80	MC203G	1	15M	MON	4.0	.30	DTL	6		8	8						-55	125	1	G013	CN8
81	MC215F	1	15M	MON	4.0	.30	DTL	3		8	8						-55	125	2	G013k	TO91
82	MC215G	1	15M	MON	4.0	.30	DTL	3		8	8						-55	125	2	G013k	CN8
83	MC253F	1	15M	MON	4.0	.30	DTL	6		8	8						0	75	1	G013	TO91
84	MC253G	1	15M	MON	4.0	.30	DTL	6		8	8						0	75	1	G013	CN8
85	MC265F	1	15M	MON	4.0	.30	DTL	3		8	8						0	75	2	G013k	TO91
86	MC265G	1	15M	MON	4.0	.30	DTL	3		8	8						0	75	2	G013k	CN8
87	RG80P	1	20M	MON	3.4	.20	TTL	3	15	0.0	5.0	11n			60m†	1.1	-55	125	2		M105k
88	RG81P	1	20M	MON	3.4	.20	TTL	3	7	0.0	5.0	11n			60m†	1.1	-55	125	2		M105k
89	RG82P	1	20M	MON	3.4	.20	TTL	3	12	0.0	5.0	11n			60m†	1.1	0	75	2		M105k
90	RG83P	1	20M	MON	3.4	.20	TTL	3	6	0.0	5.0	11n			60m†	1.1	0	75	2		M105k
91	RG280P	1	20M	MON	3.4	.20	TTL	4	15	0.0	5.0	11n			76m†	1.0	-55	125	2		M105k
92	RG281P	1	20M	MON	3.4	.20	TTL	4	7	0.0	5.0	11n			76m†	1.0	-55	125	2		M105k
93	RG282P	1	20M	MON	3.4	.20	TTL	4	12	0.0	5.0	11n			76m†	1.0	0	75	2		M105k
94	RG283P	1	20M	MON	3.4	.20	TTL	4	6	0.0	5.0	11n			76m†	1.0	0	75	2		M105k
95	TG425	1	20M	MON	3.5	.25	TTL	4	15†	0	6	12n	5.0n	8.0n	80m	1.0 Δ	-55	125	2	G01166	ZB159
96	TG426	1	20M	MON	3.5	.25	TTL	4	15†	0	6	12n	5.0n	8.0n	80m	1.0 Δ	0	75	2	G01166	ZB159
97	TG427	1	20M	MON	3.5	.25	TTL	4	7†	0	6	12n	5.0n	8.0n	80m	1.0 Δ	-55	125	2	G01166	ZB159
98	TG428	1	20M	MON	3.5	.25	TTL	4	7†	0	6	12n	5.0n	8.0n	80m	1.0 Δ	0	75	2	G01166	ZB159
99	GDG4-20	1	20M	PCB	-6.0	0.0	TTL	3	5	12	6.0	8.0n	8.0n	8.0n	528m		0	55	4	G01137	CB15
100	CTuL956	1	30M	MON	2.5	-.50	CTL	2	25	2.0	4.5	15n			160m	500m⧄	-15	55	2	G01114	M54
101	8120	1	30M	PCB	0.0Δ	-1.5Δ	CML	6	12	15	10	5.0n			3.4	600m	-20	55	2		CB30b
102	MC1111	1	50M	MOH			DDL	4†							200m		-55	125	2	G0123	CN9
103	MC1112	1	50M	MOH			DDL	2							300m		-55	125	3	G0124	CN9
104	MC1113	1	50M	MOH			DDL	2†							400m		-55	125	3	G0125	CN9
105	MC1114	1	50M	MOH			DDL	8							100m		-55	125	1	G0126	CN9
106	DC50CSAN3	1	50M	PCB	3.0	0.0		3	4	12	12	9.0n	7.0n	10n		1.0	-10	100	4		
107	DC50CSAN8	1	50M	PCB	3.0	0.0		8	4	12	12	9.0n	7.0n	10n		1.0	-10	100	2		
108	DC50CSSN4	1	50M	PCB	3.0	0.0		2	4	12	12	9.0n	7.0n	10n		1.0	-10	100	8		
109	DC50MSAN3	1	50M	PCM	3.0	0.0		3	4	12	12	9.0n	7.0n	10n		1.0	-10	100	2		
110	DC50MSAN8	1	50M	PCM	3.0	0.0		8	4	12	12	9.0n	7.0n	10n		1.0	-10	100	1		

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPER-ATING FREQ. (Hz)	3 PRO-CESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPA-GATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	DC50MSSN4	1	50M	PCM	3.0	0.0		2	4	12	12	9.0n	7.0n	10n		1.0	-10	100	4	G011a	
2	S54H52F	1,2			2.0%	.80*	TTL	10Δ	10	0.0	5.0	9.2n			132m%		-55	125	1	G01198	M105r
3	6G280G	1,2		MON	3.3	.26	TTL	5Δ	15†	0	5	10n	5.0n	8.0n	76m	1.0	-55	125	2	G01157	TO84
4	6G280K	1,2		MON	3.3	.26	TTL	5Δ	15†	0	5	10n	5.0n	8.0n	76m	1.0	-55	125	2	G01157	TO116
5	6G281G	1,2		MON	3.3	.26	TTL	5Δ	7†	0	5	10n	5.0n	8.0n	76m	1.0	-55	125	2	G01157	TO84
6	6G281K	1,2		MON	3.3	.26	TTL	5Δ	7†	0	5	10n	5.0n	8.0n	76m	1.0	-55	125	2	G01157	TO116
7	6G282D	1,2		MON	3.3	.26	TTL	5Δ	12†	0	5	10n	5.0n	8.0n	76m	1.0	0	75	2	G01157	TO116
8	6G282G	1,2		MON	3.3	.26	TTL	5Δ	12†	0	5	10n	5.0n	8.0n	76m	1.0	0	75	2	G01157	TO84
9	6G283D	1,2		MON	3.3	.26	TTL	5Δ	6†	0	5	10n	5.0n	8.0n	76m	1.0	0	75	2	G01157	TO116
10	6G283G	1,2		MON	3.3	.26	TTL	5Δ	6†	0	5	10n	5.0n	8.0n	76m	1.0	0	75	2	G01157	TO84
11	PD9635-61	1,2		MON	3.3	.26	TTL	5Δ	15†	0	5	10n	5.0n	8.0n	70m	1.0	-55	125	2	G01157	TO116
12	PD9635-69	1,2		MON	3.3	.26	TTL	5Δ	12†	0	5	10n	5.0n	8.0n	70m	1.0	0	75	2	G01157	TO116
13	PD9635-71	1,2		MON	3.3	.26	TTL	5Δ	7†	0	5	10n	5.0n	8.0n	70m	1.0	-55	125	2	G01157	TO116
14	PD9635-79	1,2		MON	3.3	.26	TTL	5Δ	6†	0	5	10n	5.0n	8.0n	70m	1.0	0	75	2	G01157	TO116
15	PL9635-61	1,2		MON	3.3	.26	TTL	5Δ	15†	0	5	10n	5.0n	8.0n	70m	1.0	-55	125	2	G01157	TO86
16	PL9635-69	1,2		MON	3.3	.26	TTL	5Δ	12†	0	5	10n	5.0n	8.0n	70m	1.0	0	75	2	G01157	TO86
17	PL9635-71	1,2		MON	3.3	.26	TTL	5Δ	7†	0	5	10n	5.0n	8.0n	70m	1.0	-55	125	2	G01157	TO86
18	PL9635-79	1,2		MON	3.3	.26	TTL	5Δ	6†	0	5	10n	5.0n	8.0n	70m	1.0	0	75	2	G01157	TO86
19	SG280	1,2		MON	3.3	.26	TTL	5Δ	15†	0	5	10n	5.0n	8.0n	76m	1.0	-55	125	2	G01157	ZB100
20	SG281	1,2		MON	3.3	.26	TTL	5Δ	7†	0	5	10n	5.0n	8.0n	76m	1.0	-55	125	2	G01157	ZB100
21	SG282	1,2		MON	3.3	.26	TTL	5Δ	12†	0	5	10n	5.0n	8.0n	76m	1.0	0	75	2	G01157	ZB100
22	SG283	1,2		MON	3.3	.26	TTL	5Δ	6†	0	5	10n	5.0n	8.0n	76m	1.0	0	75	2	G01157	ZB100
23	CD4019D	1,2		MOS	9.99%	.01†*	TTL	10	1	0.0	10	100n	20n	20n	100u%	7.0	-55	125	1	G01215	Δ001AE
24	CD4019E	1,2		MOS	9.99%	.01†*	TTL	10	1	0.0	10	100n	20n	20n	1.0m%	4.5	-40	80	1	G01215	Δ001AC
25	SCL4019D	1,2		MOS	9.99%	.01†*	TTL	10	1	0.0	10	100n	20n	20n	100u%	7.0	-55	125	1	G01215	Δ001AE
26	SCL4019F	1,2		MOS	9.99%	.01†*	TTL	10	1	0.0	10	100n	20n	20n	100u%	7.0	-55	125	1	G01215	Δ004AG
27	CD4019	1,2		MOS	10	0.0	TTL	4	50	0.0	10	100n			100u	4.5 Δ	-55	125			FP▨
28	DBA01031	1,2	10M	PCM	6.0%	1†*	DDL	12		0	12	10n%							3	G013m	M52
29	DBA01032	1,2	10M	PCM	6.0%	1†*	DDL	11		0	12	10n%							4	G0194	M52
30	DBA01034	1,2	10M	PCM	6.0%	1†*	DDL	7		0	12	10n%							7	G0195	M52
31	DCA01031	1,2	10M	PCM	6.0%	1†*	DDL	12		0	12	10n%							3	G013m	CB29
32	DCA01032	1,2	10M	PCM	6.0%	1†*	DDL	11		0	12	10n%							4	G0194	CB29
33	DCA01034	1,2	10M	PCM	6.0%	1†*	DDL	7		0	12	10n%							7	G0195	CB29
34	GG961	1,2	20M	PCB	2.0%	.80*	TTL	6	10	0	5	13n			115m†	400m	0	70	6		CB▨
35	MM10893	1,2 1	.0M	3DM	6.0	0.0	DTL	5		6	18								2		MP38
36	TG32	1,2 5	.0M	PCB	0.0	3.0	DTL	8Δ	1	0	4	60n	40n	30n	280m	1.5	-40	70	4		CB10a
37	IA00220	1,2 5	.0M	PCB	2.0%	.95*	DTL	12	8	0	5	60n%	50n	15n	385m	1.0 Δ	0	75	2		CB▨
38	IA0-0209	1,2 5	.0M	PCB	2.0%	1.1*	DTL	5	2	0	5	90nΔ			315m	500m	0	75	5	G01151	CB51
39#	MP103	1,2S		MON	-15	-2	MOS	6		20	0	500n			12m	1.0	-55	125	1	G01169	TO100
40#	MP105	1,2S		MON	-15	-2	MOS	6		24	0	500n			12m	1.0	-55	125	1	G01169	TO100
41	RG3210P	1,3		MON			DTL	8	11	0.0	5	5.5n			30m†	1.1	-55	125	1		M105k
42	RG3212P	1,3		MON			DTL	8	9	0.0	5	5.5n			30m†	1.1	0	75	1		M105k
43	RG3230P	1,3		MON			DTL	10		0.0	5	2.0n			7.0m†	1.1	-55	125	1		M105k
44	RG3232P	1,3		MON			DTL	10		0.0	5	2.0n			7.0m†	1.1	0	75	1		M105k
45	RG3250P	1,3		MON			DTL	9	11	0.0	5	6.0n			40m†	1.1	-55	125	1		M105k
46	RG3252P	1,3		MON			DTL	9	9	0.0	5	6.0n			40m†	1.1	0	75	1		M105k
47	RG3270P	1,3		MON			DTL	4		0.0	5	1.0n			7.0m†	1.1	-55	125	1		M105k
48	RG3272P	1,3		MON			DTL	4		0.0	5	1.0n			7.0m†	1.1	0	75	1		M105k
49	RG3300P	1,3		MON			DTL	9	11	0.0	5	6.0n			35m†	1.1	-55	125	1		M105k
50	RG3302P	1,3		MON			DTL	9	9	0.0	5	6.0n			35m†	1.1	0	75	1		M105k
51	RG3310P	1,3		MON			DTL	4	11	0.0	5	5.5n			60m†	1.1	-55	125	2		M105k
52	RG3312P	1,3		MON			DTL	4	9	0.0	5	5.5n			60m†	1.1	0	75	2		M105k
53	RG3440P	1,3		MON			DTL	4	11	0.0	5	5.5n			60m†	1.1	-55	125	2		M105k
54	RG3442P	1,3		MON			DTL	4	9	0.0	5	5.5n			60m†	1.1	0	75	2		M105k
55	RG3450P	1,3		MON			DTL		11	0.0	5	5.5n				1.1	-55	125	1		M105k
56	RG3452P	1,3		MON			DTL		9	0.0	5	5.5n				1.1	0	75	1		M105k
57#	FHH161A	1,3		MON	2.3%	.40*	TTL	10	9	0	5	6n			22m	1.0	0	75	1	G01164	TO116
58#	FHH161B	1,3		MON	2.3%	.40*	TTL	10	5	0	5	6n			22m	1.0	0	75	1	G01164	TO116
59#	FHH181A	1,3		MON	2.3%	.40*	TTL	10	9	0	5	6n			22m	1.0	0	75	1	G01163	TO116
60#	FHH181B	1,3		MON	2.3%	.40*	TTL	10	5	0	5	6n			22m	1.0	0	75	1	G01163	TO116
61	6G212D	1,3		MON	3.0%	.40*	TTL	9Δ	9	0	6	6.0n	3.0n	4.5n	22m†	1.0	0	75	1	G01163	M126b
62	6G212G	1,3		MON	3.0%	.40*	TTL	9Δ	9	0	6	6.0n	3.0n	4.5n	22m†	1.0	0	75	1	G01163	FP57
63	6G212K	1,3		MON	3.0%	.40*	TTL	9Δ	9	0	6	6.0n	3.0n	4.5n	22m†	1.0	0	75	1	G01163	M105h
64	6G213D	1,3		MON	3.0%	.40*	TTL	9Δ	5	0	6	6.0n	3.0n	4.5n	22m†	1.0	0	75	1	G01163	M126b
65	6G213G	1,3		MON	3.0%	.40*	TTL	9Δ	5	0	6	6.0n	3.0n	4.5n	22m†	1.0	0	75	1	G01163	FP57
66	6G213K	1,3		MON	3.0%	.40*	TTL	9Δ	5	0	6	6.0n	3.0n	4.5n	22m†	1.0	0	75	1	G01163	M105h
67	6G252D	1,3		MON	3.0%	.40*	TTL	9	9	0	6	6.0n	3.0n	4.5n	22m†	1.0	0	75	1	G04164	M126b
68	6G252G	1,3		MON	3.0%	.40*	TTL	9	9	0	6	6.0n	3.0n	4.5n	22m†	1.0	0	75	1	G04164	FP57
69	6G252K	1,3		MON	3.0%	.40*	TTL	9	9	0	6	6.0n	3.0n	4.5n	22m†	1.0	0	75	1	G04164	M105h
70	6G253D	1,3		MON	3.0%	.40*	TTL	9	5	0	6	6.0n	3.0n	4.5n	22m†	1.0	0	75	1	G04164	M126b
71	6G253G	1,3		MON	3.0%	.40*	TTL	9	5	0	6	6.0n	3.0n	4.5n	22m†	1.0	0	75	1	G04164	FP57
72	6G253K	1,3		MON	3.0%	.40*	TTL	9	5	0	6	6.0n	3.0n	4.5n	22m†	1.0	0	75	1	G04164	M105h
73	6G210D	1,3		MON	3.2%	.40*	TTL	9Δ	11	0	6	6.0n	3.0n	4.5n	22m†	1.0	-55	125	1	G01163	M126b
74	6G210G	1,3		MON	3.2%	.40*	TTL	9Δ	11	0	6	6.0n	3.0n	4.5n	22m†	1.0	-55	125	1	G01163	FP57
75	6G210K	1,3		MON	3.2%	.40*	TTL	9Δ	11	0	6	6.0n	3.0n	4.5n	22m†	1.0	-55	125	1	G01163	M105h
76	6G211D	1,3		MON	3.2%	.40*	TTL	9Δ	6	0	6	6.0n	3.0n	4.5n	22m†	1.0	-55	125	1	G01163	M126b
77	6G211G	1,3		MON	3.2%	.40*	TTL	9Δ	6	0	6	6.0n	3.0n	4.5n	22m†	1.0	-55	125	1	G01163	FP57
78	6G211K	1,3		MON	3.2%	.40*	TTL	9Δ	6	0	6	6.0n	3.0n	4.5n	22m†	1.0	-55	125	1	G01163	M105h
79	6G250D	1,3		MON	3.2%	.40*	TTL	9	11		6	6.0n	3.0n	4.5n	22m†	1.0	0	75	1	G01164	M126b
80	6G250G	1,3		MON	3.2%	.40*	TTL	9	11		6	6.0n	3.0n	4.5n	22m†	1.0	0	75	1	G01164	FP57
81	6G250K	1,3		MON	3.2%	.40*	TTL	9	11	0	6	6.0n	3.0n	4.5n	22m†	1.0	-55	125	1	G04164	M105h
82	6G251D	1,3		MON	3.2%	.40*	TTL	9	6	0	6	6.0n	3.0n	4.5n	22m†	1.0	-55	125	1	G04164	M126b
83	6G251G	1,3		MON	3.2%	.40*	TTL	9	6	0	6	6.0n	3.0n	4.5n	22m†	1.0	-55	125	1	G04164	FP57
84	6G251K	1,3		MON	3.2%	.40*	TTL	9	6	0	6	6.0n	3.0n	4.5n	22m†	1.0	-55	125	1	G04164	M105h
85	6G300G	1,3		MON	3.5	.25	TTL	10Δ	11	0	5	6.0n	3.0n	4.5n	36m	1.0	-55	125	1	G01159	TO84
86	6G300K	1,3		MON	3.5	.25	TTL	10Δ	11	0	5	6.0n	3.0n	4.5n	36m	1.0	-55	125	1	G01159	TO116
87	6G301G	1,3		MON	3.5	.25	TTL	10Δ	6	0	5	6.0n	3.0n	4.5n	36m	1.0	-55	125	1	G01159	TO84
88	6G301K	1,3		MON	3.5	.25	TTL	10Δ	6	0	5	6.0n	3.0n	4.5n	36m	1.0	-55	125	1	G01159	TO116
89	6G302D	1,3		MON	3.5	.25	TTL	10Δ	9	0	5	6.0n	3.0n	4.5n	36m	1.0	0	75	1	G01159	TO116
90	6G302G	1,3		MON	3.5	.25	TTL	10Δ	9	0	5	6.0n	3.0n	4.5n	36m	1.0	0	75	1	G01159	TO84
91	6G303D	1,3		MON	3.5	.25	TTL	10Δ	5	0	5	6.0n	3.0n	4.5n	36m	1.0	0	75	1	G01159	TO116
92	6G303G	1,3		MON	3.5	.25	TTL	10Δ	5	0	5	6.0n	3.0n	4.5n	36m	1.0	0	75	1	G01159	TO84
93	6G310G	1,3		MON	3.5	.25	TTL	6†	11	0.0	5.0	6.0n	3.0n	4.5	174m	1.0	-55	125	2	G01158	TO84
94	6G310K	1,3		MON	3.5	.25	TTL	6†	11	0.0	5.0	6.0n	3.0n	4.5	174m	1.0	-55	125	2	G01158	TO116
95	6G311G	1,3		MON	3.5	.25	TTL	6†	6	0.0	5.0	6.0n	3.0n	4.5	174m	1.0	-55	125	2	G01158	TO84
96	6G311K	1,3		MON	3.5	.25	TTL	6†	6	0.0	5.0	6.0n	3.0n	4.5	174m	1.0	-55	125	2	G01158	TO116
97	6G312D	1,3		MON	3.5	.25	TTL	6†	9	0.0	5.0	6.0n	3.0n	4.5	174m	1.0	0	75	2	G01158	TO116
98	6G312G	1,3		MON	3.5	.25	TTL	6†	9	0.0	5.0	6.0n	3.0n	4.5	174m	1.0	0	75	2	G01158	TO84
99	6G313D	1,3		MON	3.5	.25	TTL	6†	5	0.0	5.0	6.0n	3.0n	4.5	174m	1.0	0	75	2	G01158	TO116
100	6G313G	1,3		MON	3.5	.25	TTL	6†	5	0.0	5.0	6.0n	3.0n	4.5	174m	1.0	0	75	2	G01158	TO84
101	SG210	1,3		MON	3.5	.25	TTL	9Δ	11	0	5	6.0n	3.0n	4.5n	44m	1.0	-55	125	1	G01163	ZB100
102	SG211	1,3		MON	3.5	.25	TTL	9Δ	6	0	5	6.0n	3.0n	4.5n	44m	1.0	-55	125	1	G01163	ZB100
103	SG212	1,3		MON	3.5	.25	TTL	9Δ	9	0	5	6.0n	3.0n	4.5n	44m	1.0	0	75	1	G01163	ZB100
104	SG213	1,3		MON	3.5	.25	TTL	9Δ	5	0	5	6.0n	3.0n	4.5n	44m	1.0	0	75	1	G01163	ZB100
105	SG250	1,3		MON	3.5	.25	TTL	10Δ	11	0	5	6.0n	3.0n	4.5n	156m	1.0	-55	125	1	G01164	ZB100
106	SG251	1,3		MON	3.5	.25	TTL	10Δ	6	0	5	6.0n	3.0n	4.5n	156m	1.0	-55	125	1	G01164	ZB100
107	SG252	1,3		MON	3.5	.25	TTL	10Δ	9	0	5	6.0n	3.0n	4.5n	156m	1.0	0	75	1	G01164	ZB100
108	SG253	1,3		MON	3.5	.25	TTL	10Δ	5	0	5	6.0n	3.0n	4.5n	156m	1.0	0	75	1	G01164	ZB100
109	SG300	1,3		MON	3.5	.25	TTL	10Δ	11	0	5	6.0n	3.0n	4.5n	36m	1.0	-55	125	1	G01159	ZB100
110	SG301	1,3		MON	3.5	.25	TTL	10Δ	6	0	5	6.0n	3.0n	4.5n	36m	1.0	-55	125	1	G01159	ZB100

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	SG302	1,3		MON	3.5	.25	TTL	10Δ	9	0	5	6.0n	3.0n	4.5n	36m	1.0	0	75	1	G01159	ZB100
2	SG303	1,3		MON	3.5	.25	TTL	10Δ	5	0	5	6.0n	3.0n	4.5n	36m	1.0	0	75	1	G01159	ZB100
3	SG310	1,3		MON	3.5	.25	TTL	6†	11	0.0	5.0	6.0n	3.0n	4.5n	174m	1.0	-55	125	2	G01158	ZB100
4	SG311	1,3		MON	3.5	.25	TTL	6†	6	0.0	5.0	6.0n	3.0n	4.5n	174m	1.0	-55	125	2	G01158	ZB100
5	SG312	1,3		MON	3.5	.25	TTL	6†	9	0.0	5.0	6.0n	3.0n	4.5n	174m	1.0	0	75	2	G01158	ZB100
6	SG313	1,3		MON	3.5	.25	TTL	6†	5	0.0	5.0	6.0n	3.0n	4.5n	174m	1.0	0	75	2	G01158	ZB100
7	6G70G	1,3	20M	MON	3.3	.26	TTL	6†	15†	0	5	12n	6.0n	8.0n	40m	900m	-55	125	2	G01156	TO84
8	6G70K	1,3	20M	MON	3.3	.26	TTL	6†	15†	0	5	12n	6.0n	8.0n	40m	900m	-55	125	2	G01156	TO116
9	6G71G	1,3	20M	MON	3.3	.26	TTL	6†	7†	0	5	12n	6.0n	8.0n	40m	900m	-55	125	2	G01156	TO84
10	6G71K	1,3	20M	MON	3.3	.26	TTL	6†	7†	0	5	12n	6.0n	8.0n	40m	900m	-55	125	2	G01156	TO116
11	6G72D	1,3	20M	MON	3.3	.26	TTL	6†	12†	0	5	12n	6.0n	8.0n	40m	900m	0	75	2	G01156	TO116
12	6G72G	1,3	20M	MON	3.3	.26	TTL	6†	12†	0	5	12n	6.0n	8.0n	40m	900m	0	75	2	G01156	TO84
13	6G73D	1,3	20M	MON	3.3	.26	TTL	6†	6†	0	5	12n	6.0n	8.0n	40m	900m	0	75	2	G01156	TO116
14	6G73G	1,3	20M	MON	3.3	.26	TTL	6†	6†	0	5	12n	6.0n	8.0n	40m	900m	0	75	2	G01156	TO84
15	SG70	1,3	20M	MON	3.3	.26	TTL	6†	15†	0	5	12n	6.0n	8.0n	40m	900m	-55	125	2	G01156	ZB100
16	SG71	1,3	20M	MON	3.3	.26	TTL	6†	7†	0	5	12n	6.0n	8.0n	40m	900m	-55	125	2	G01156	ZB100
17	SG72	1,3	20M	MON	3.3	.26	TTL	6†	12†	0	5	12n	6.0n	8.0n	40m	900m	0	75	2	G01156	ZB100
18	SG73	1,3	20M	MON	3.3	.26	TTL	6†	6†	0	5	12n	6.0n	8.0n	40m	900m	0	75	2	G01156	ZB100
19	SWG210	1,3	35M	MON	3.5	.26	TTL	10Δ	12	0.0	6.0	7.0n	3.0n	5.0n	30m	1.0	-55	125	2		
20	SWG211	1,3	35M	MON	3.5	.26	TTL	10Δ	6	0.0	6.0	7.0n	3.0n	5.0n	30m	1.0	-55	125	2		
21	SWG212	1,3	35M	MON	3.5	.26	TTL	10Δ	10	0.0	6.0	7.0n	3.0n	5.0n	30m	1.0	0	75	2		
22	SWG213	1,3	35M	MON	3.5	.26	TTL	10Δ	5	0.0	6.0	7.0n	3.0n	5.0n	30m	1.0	0	75	2		
23	SWG250	1,3	35M	MON	3.5	.26	TTL	11Δ	12	0.0	6.0	7.0n	3.0n	5.0n	43m	1.0	-55	125	4		
24	SWG251	1,3	35M	MON	3.5	.26	TTL	11Δ	6	0.0	6.0	7.0n	3.0n	5.0n	43m	1.0	-55	125	4		
25	SWG252	1,3	35M	MON	3.5	.26	TTL	11Δ	10	0.0	6.0	7.0n	3.0n	5.0n	43m	1.0	0	75	4		
26	SWG253	1,3	35M	MON	3.5	.26	TTL	11Δ	5	0.0	6.0	7.5n	3.0n	5.0n	43m	1.0	0	75	4		
27#	SP573B	1A		MON	.23	-1.5	ECT	5	40	7.0	4.0	18n			200m	300m	0	100	1	G01167	FP1
28#	SP574B	1A		MON	.23	-1.5	ECT	5	40	7.0	4.0	17n			200m	300m	0	100	1	G01167	FP1
29	BC13	1A	300k	PCB	8.0	0.0	DTL	15	22	25	25	180n	100n	80n	2.0	3.5	55	100	13	G0117	CB34
30	BL13	1A	8.0M	PCB	8.0	0.0	DTL	10	10	25	25	25n	15n	10n	4.5	3.5	55	100	13	G0117	CB34
31	BC10	1AS	300k	PCB	8.0	0.0	DTL	15	22	25	25	180n	120n	60n	1.2	3.5	-55	100	8	G0116	CB34
32	BH10	1AS	1.0M	PCB	8.0	0.0	DTL	10	20	25	25	100n	70n	30n	2.2	3.5	-55	100	8	G0116	CB34
33	BL10	1AS	8.0M	PCB	8.0	0.0	DTL	10	20	25	25	25n	15n	10n	2.0	3.5	-55	100	8	G0116	CB34
34	CD2205	1C		MON	3.5	.10	DTL	4Δ	6	0.0	8.0	112n			12m	1.2 Δ	-55	125	2	G01155	FP44
35	GUL1-.2	1C	200k	PCB	-10	0.0	DTL	4†	10	12	6.0	10n	1.0u	1.0u	576m		0	55	10	G0127	CB15
36	IC10	1C	300k	PCB	8.0	0.0	DTL	15	7	25	25	110n	70n	40n	800m	3.5	-55	100	8	G01106	CB34
37	IH10	1C	1.0M	PCB	8.0	0.0	DTL	10	12	25	25	60n	35n	20n	1.6	3.5	-55	100	8	G01106	CB34
38	GUL1-1	1C	1.0M	PCB	-10	0.0	DTL	4†	10	12	6.0	10n	250n	250n	576m		0	55	10	G0127	CB15
39	GUL1-5	1C	5.0M	PCB	-10	0.0	DTL	4†	10	12	6.0	10n	60n	60n	1.3		0	55	10	G0127	CB15
40	IL10	1C	8.0M	PCB	8.0	0.0	DTL	10	16	25	25	25n	15n	10n	1.7	1.5	-55	100	8	G01106	CB34
41	BC12	1E	300k	PCB	8.0	0.0	DTL	1	22	25	25	180n	120n	60n	1.7	4.2	-55	100	10	G01105	CB34
42	BH12	1E	1.0M	PCB	8.0	0.0	DTL	2	20	25	25	100n	70n	30n	3.2	4.2	-55	100	10	G01105	CB34
43	BL12	1E	8.0M	PCB	8.0	0.0	DTL	2	20	25	25	20n	12n	8.0n	3.8	4.2	-55	100	10	G01105	CB34
44	BT11	1E	10M%	PCB	4.0	0.0		4†	14	0	8	18n			1.1	1.8	5	71	12	G01150	CB37a
45	BT15	1E	10M%	PCB	4.0	0.0		3†	14	0.0	8.0	18n			1.0	1.8	5	71	8	G01150a	CB37a
46	BT16	1E	10M%	PCB	4.0	0.0		3†	14	0.0	8.0	18n			1.2	1.8	5	71	8	G01150b	CB37a
47	BT18	1E	10M%	PCB	4.0	0.0		5†	14	0	8	18n			970m	1.8	5	71	10	G01150c	CB37a
48	WM10383	1E	10M	3DM	6.0	0.0	DTL	4		6	18								1		M43
49	WM10383D	1E	10M	3DM	6.0	0.0	DTL	4		6	18								2		M43
50	CTuL955	1EM	30M	MON	2.5	-.50	CTL	8	15	2.0	4.5				110m	500m⧄	-15	55	1		M54
51#	SP551B	1ES		MON	.23Δ	-1.5	ECT	7	10	7.0	4.0	18n			230m	300m	0	100	1	G01168	FP1
52	4129	1G	1.0M	PCB	-3.0	0.0	MTL	8	9	15	10				654m	500m	-20	55	2	G0193	CB30
53	4141	1M	500k	PCB	-3.0	0.0	DTL	16	20	15	10		200n	500n	633m	500m	-20	85	1	G01102	CB30
54	4143	1M	500k	PCB	-3.0	0.0	DTL	8	20	15	10		200n	500n	756m	500m	-20	85	2	G01103	CB30
55	8030	1M	1.0M	PCB	-10*	0.0	DDL	4†	4	20	0.0				40m	1.4	0	55	13	G01128	CB2
56	PN335	1M	5.0M	PCB	6.0	0.0	DTL	3	25	0	6	50n			1.2	1.3	0	55	6	G013n	CB13
57	1130	1M	5.0M	PCB	-3.0	0.0	DTL	12	12	15	10	25n	20n	30n	1.6	500m	-20	55	1	G01101	CB31
58	CTuL953	1M	30M	MON	2.5	-.50	CTL	3†	15	2.0	4.5				180m	500m⧄	-15	55	3	G01118	M54
59	CTuL954	1M	30M	MON	2.5	-.50	CTL	4	15	2.0	4.5				140m	500m⧄	-15	55	2	G01118a	M54
60	8104	1M	30M	PCB	-1.5Δ	0.0Δ	CML	6†	12	15	10	5.0n	3.0n	3.0n	6.4	600m	-20	85	3	G01112	CB30b
61	CD2205D	1MC		MON	3.4	.10	DTL	5†	6	0.0	6.8	70n			15m†	1.2 Δ	-55	125	3	G01182	M135
62	B657	1S	1.0k	PCB	-6.0	0.0	DTL	4	4	12	6.0				150m	2.0	-15	60	1	G0170	CB22
63	MA/O31-62	1S	.05M	PCB	-6.0	0.0		4		12	12	500n					0	50	1	G0178	CB26
64	WS813Q	15		MON			DTL	3	10†	0.0	4.0				20m	250m	-55	125	1	G0173	FP37
65#	SP10110L	2		MON	-.96%	-1.6*†	ECT	3	10	5.2	0.0	2.4n†	2.4n†	2.4n†	150m†		0	75	2	G02165	M191
66	SU331G	2		MON	2.7	0.0	DTL	2	17		5.5	30n%			40m	1.2 Δ	-20	85	2	G0278	TO91
67	SU331K	2		MON	2.7	0.0	DTL	2	17		5.5	30n%			40m	1.2 Δ	-20	85	2	G0278	CN17
68	SU332G	2		MON	2.7	0.0	DTL	3	17		5.5	30n%			40m	1.2 Δ	-20	85	2	G0278a	TO91
69	SU332K	2		MON	2.7	0.0	DTL	3	17		5.5	30n%			40m	1.2 Δ	-20	85	2	G0278a	CN17
70	LU331K	2		MON	3.3%	.6†*	DTL	2	17		5.5	30n%			80m		15	55	2	G0278	CN17
71	LU332K	2		MON	3.3%	.6†*	DTL	3	17		5.5	30n%			80m		15	55	2	G0278a	CN17
72	RG210P	2		MON	3.5	.20	TTL	8	11	0.0	5	7.0n			60m†	1.0	-55	125	2		M105k
73	RG211P	2		MON	3.5	.20	TTL	8	6	0.0	5	7.0n			60m†	1.0	-55	125	2		M105k
74	RG212P	2		MON	3.5	.20	TTL	8	9	0.0	5.0	7.0n			60m†	1.0	0	75	2		M105k
75	RG213P	2		MON	3.5	.20	TTL	8	5	0.0	5.0	7.0n			60m†	1.0	0	75	2		M105k
76	RG230P	2		MON	3.5	.20	TTL	5		0.0	5	2.0n			28m†	1.0	-55	125	4		M105k
77	RG231P	2		MON	3.5	.20	TTL	5		0.0	5	2.0n			28m†	1.0	-55	125	4		M105k
78	RG232P	2		MON	3.5	.20	TTL	5		0.0	5	2.0n			28m†	1.0	0	75	4		M105k
79	RG233P	2		MON	3.5	.20	TTL	5		0.0	5	2.0n			28m†	1.0	0	75	4		M105k
80	RG250P	2		MON	3.5	.20	TTL	9	11	0.0	5.0	8.0n			160m†	1.0	-55	125	4		M105k
81	RG251P	2		MON	3.5	.20	TTL	9	6	0.0	5.0	8.0n			160m†	1.0	-55	125	4		M105k
82	RG252P	2		MON	3.5	.20	TTL	9	9	0.0	5.0	8.0n			160m†	1.0	0	75	4		M105k
83	RG253P	2		MON	3.5	.20	TTL	9	5	0.0	5.0	8.0n			160m†	1.0	0	75	4		M105k
84	RG270P	2		MON	3.5	.20	TTL	4		0.0	5	1.0n			28m†	1.0	-55	125	2		M105k
85	RG271P	2		MON	3.5	.20	TTL	4		0.0	5	1.0n			28m†	1.0	-55	125	2		M105k
86	RG272P	2		MON	3.5	.20	TTL	4		0.0	5	1.0n			28m†	1.0	0	75	2		M105k
87	RG273P	2		MON	3.5	.20	TTL	4		0.0	5	1.0n			28m†	1.0	0	75	2		M105k
88	RG300P	2		MON	3.5	.20	TTL	9	11	0.0	5.0	7.0n			105m†	1.0	-55	125	3		M105k
89	RG301P	2		MON	3.5	.20	TTL	9	6	0.0	5.0	7.0n			105m†	1.0	-55	125	3		M105k
90	RG302P	2		MON	3.5	.20	TTL	9	9	0.0	5.0	7.0n			105m†	1.0	0	75	3		M105k
91	RG303P	2		MON	3.5	.20	TTL	9	5	0.0	5.0	7.0n			105m†	1.0	0	75	3		M105k
92	RG310P	2		MON	3.5	.20	TTL	4	11	0.0	5.0	7.0n			60m†	1.0	-55	125	2		M105k
93	RG311P	2		MON	3.5	.20	TTL	4	6	0.0	5	7.0n			60m†	1.0	-55	125	2		M105k
94	RG312P	2		MON	3.5	.20	TTL	4	9	0.0	5	7.0n			60m†	1.0	0	75	2		M105k
95	RG313P	2		MON	3.5	.20	TTL	4	5	0.0	5	7.0n			60m†	1.0	0	75	2		M105k
96	LU334A	2		MON	3.8%	.6*†	TTL	5Δ	11	0	5.5	35n%			44m†	1.7 Δ	10	55	2	G0278b	TO116
97	LU374A	2		MON	3.8%	.6*†	TTL	3	11	0	5.5	35n%			44m†	1.7 Δ	10	55	3	G0278c	TO116
98	LU375A	2		MON	3.8%	.6*†	TTL	3Δ	11	0	5.5	35n%			44m†	1.7 Δ	10	55	3	G0278d	TO116
99	LU384A	2		MON	3.8%	.6*†	TTL	2	11	0	5.5	35n%			44m†	1.7 Δ	10	55	4	G0278e	TO116
100	MC14012L	2		MOS	9.9%	.01*†		4	50	0.0	10	50n	200n	300n	1.0u%		-55	125	2	G04434	M157a
101#	GDH136	2		MOS	-10%	-2.0*		2		-27	0.0	300nΔ					-55	85	2	G01160c	TO74
102	B893007	2		3DM	0.0	-6.0	RDL	3		6	0		700n				-20	60	2	G0231	M4
103	B652	2	1.0k	PCB	-6.0	0.0		3	4	12	6.0				200m	2.0	-15	60	2	G0216	CB22
104	B654	2	1.0k	PCB	-6.0	0.0		3	4								-15	60	2	G0270	CB22
105	035L	2	50k	PCB	-10	0.0	RTL			12	12						0	50	5	G0280a	CB19
106	044L	2	50k	PCB	-10	0.0	RTL			12	12						0	50	4	G0280b	CB19
107	DC1COG3	2	.10M	PCB	-6.0	0.0		3	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	8		
108	DC1COG5	2	.10M	PCB	-6.0	0.0		5	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	3	G0237a	
109	G326	2	.10M	PCB	-6.0	0.0	RCT	3	10	12	6	100n	600n	1.4u			-55	71	6		CB16
110	GA326	2	100k	PCB	-6.0	0.0	DCT	3	10	12	6.0	100n	600n	1.4u			-55	71	6		CB16

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	DC1MOG3	2	.10M	PCM	-6.0	0.0		3	6	18	18	1.0u	1.5u	3.0u		1.2	-55	100	4		
2	DC1MOG5	2	.10M	PCM	-6.0	0.0		5	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	1	G0237	
3	B893002	2	.10M	3DM	-6.0	0.0	DDL	3		0	6						-20	60	2	G0228	M4
4	B893003	2	.10M	3DM	-6.0	0.0	DDL	2		6	0						-20	60	2	G0229	M4
5	B893004	2	.10M	3DM	-6.0	0.0	RDL	4		6	0		400n				-20	60	2	G0230	M4
6	OG11-1	2	100k	3DM	-12	0.0	DDL	3	3			100n	50n	100n	25m	2.0	-35	65	1	G027a	M15
7	OG11-2	2	100k	3DM	-12	0.0	DDL	5	3			100n	50n	100n	25m	2.0	-35	65	1	G027b	M15
8	OG11-3	2	100k	3DM	-12	0.0	DDL	9	3			100n	50n	100n	25m	2.0	-35	65	1	G027c	M15
9	OG12-1	2	100k	3DM	-12	0.0	DDL	2	3			100n	50n	100n	50m	2.0	-35	65	2	G027d	M15
10	OG12-2	2	100k	3DM	-12	0.0	DDL	4	3			100n	50n	100n	50m	2.0	-35	65	2	G027e	M15
11	OG13-1	2	100k	3DM	-12	0.0	DDL	2	3			100n	50n	100n	75m	2.0	-35	65	3	G027f	M15
12	OG14-1	2	100k	3DM	-12	0.0	DDL	3	3			100n	50n	100n	100m	2.0	-35	65	2	G0211	M15
13	11G2312	2	.20M	PCB	8.2	0.0		2		0	28	500n	500n					85	10	G0295	CB49
14	11G2312-01	2	.20M	PCB	8.2	0.0		2		0	28	500n	500n					85	10	G0293	CB49
15	11G2322	2	.20M	PCB	8.2	0.0		5Δ		0	28	500n	500n					85	5	G0295a	CB49
16	11G2322-01	2	.20M	PCB	8.2	0.0		5Δ		0	28	500n	500n					85	5	G0293a	CB49
17	GDG3-.2	2	200k	PCB	-10	0.0	DTL	5†	15	12	6.0	200n	1.0u	500n	828m		0	55	7	G0271	CB15
18	GDG6-.2	2	200k	PCB	-10	0.0	DTL	4	30	12	6.0	300n	400n	300n	1.6	2.0	0	55	6	G0297	CB15
19	GIG1-.2	2	200k	PCB	-10	0.0	DTL	3†	1	12	6.0	10n	1.0u		78m	2.0	0	55	10	G0272	CB15
20	CT430-4	2	250k	PCB	-3.0	-11	DTL	2		12			400n		480m	1.5	-54	71	4		CB16
21	CT602-2	2	250k	PCB	-3.0	-11	DTL	9		12			400n		240m		-45	65	2		CB16
22	CT642-2	2	250k	PCB	-3.0	-11	TTL	4		12	12		400n		85m		-54	71	4		CB16
23	CT651-2	2	250k	PCB	-3.0	-11	TTL	6		12			400n		85m		-54	71	4	G0253	CB16
24	DG233	2	.25M	3DM	0.0	-6.0	DDL	2	4	12	12						-54	71	4	G0243	M2
25	EM2509	2	.25M	3DM	0.0	-6.0	RDL	3	1	12	0				12m	500m	-55	71	2	G0275	M62b
26	EM2509A	2	.25M	3DM	0.0	-6.0	RDL	5	1	12	0				6.0m	500m	-55	71	1	G0275a	M62b
27	T406	2	.25M	3DM	-3.0	-11	DTL	2		12	12		1.0u		260m		-45	65	2	G0249	M17
28	T407	2	.25M	3DM	-3.0	-11	DTL	4		12	12		1.0u		260m		-45	65	1	G0250	M17
29	T412	2	.25M	3DM	-3.0	-11	DTL	5		12		400n	.40u		120m		-45	65	1	G0251	M17
30	T430	2	.25M	3DM	-3.0	-11	DTL	2		12		400n			120m	1.5	-45	65	1	G0252	M17
31	T431	2	.25M	3DM	-3.0	-11	DTL	3		12		400n			120m	1.5	-45	65	1	G0253	M17
32	T440	2	.25M	3DM	-3.0	-11	DTL	3		12					85m		-54	71	1	G0248a	M17
33	T442	2	.25M	3DM	-3.0	-11	DTL	3		12	12	200n			385m		-45	65	1	G0267	M17
34	T602	2	.25M	3DM	-3.0	-11	DTL	9		12	12	200n	400n		120m		-45	65	1	G0254	M17
35	T614	2	.25M	3DM	-3.0	-11	DTL	7		12	12	200n	1.0u		260m		-45	65	1	G0255	M17
36	T623	2	.25M	3DM	-3.0	-11	DTL	6		12	12		1.0u		260m		-45	65	1	G0256	M17
37	T634	2	.25M	3DM	-3.0	-11	DTL	8		12	12		1.0u		260m		-45	65	1	G0257	M17
38	T635	2	.25M	3DM	-3.0	-11	DTL	9		12	12		1.0u		260m		-45	65	1	G0258	M17
39	T642	2	.25M	3DM	-3.0	-11	TTL	2		12	12				85m		-54	71	2	G0266	M17
40	T651	2	.25M	3DM	-3.0	-11	TTL	3		12					85m		-54	71	2	G0259	M17
41	T663	2	.25M	3DM	-3.0	-11	RCT	2		12		400n	400n	240n		1.5	-45	65	1		M17
42	PM8363	2	.25M	3DM	-6.5	0.0	DTL	5		18	6								1	G0221	ZB37
43	PM8373	2	.25M	3DM	-6.5	0.0	DTL	3		18	6								2	G0221a	ZB37
44	SRG21	2	.30M	PCB	0.0	8.0	RDL	4	Δ	0	12						-40	75	6	G0227	CB10
45	RG21	2	.30M	PCB	-10	0.0	RDL	4	Δ	12	0						-20	55	6	G0227	CB10
46	DG333	2	.50M	3DM	0.0	6.0	RDL	2									-25	125	4	G0243	M2
47	SCL5201	2	1.0M	MOS	7.0%	3.0*	TTL	2	10	0.0	10	50n			100n%	4.0 Δ	-55	125	4	G02133	TO86
48	SCL5201D	2	1.0M	MOS	7.0%	3.0*	TTL	2	10	0.0	10	50n			100n%	4.0 Δ	-55	125	4	G02133	M170
49	UC506	2	1.0M	PCB	0.0	6.0	DTL	2	4	12	12	300n			1.1		-55	125	2	G0264	CB16
50	UC507	2	1.0M	PCB	0.0	6.0	DTL	2	4	12	12	200n			817m		-55	125	2	G0265	CB16
51	GDG3-1	2	1.0M	PCB	-10	0.0	DTL	5†	15	12	6.0	100n	250n	200n	828m		0	55	7	G0271	CB15
52	GIG1-1	2	1.0M	PCB	-10	0.0	DTL	3†	1	12	6.0	10n	250n		120m	2.0	0	55	10	G0272	CB15
53	RG1	2	1.0M	PCB	-10	0.0	RDL	4	Δ	12	0						-20	55	6	G0227	CB10
54	T310	2	1.0M	3DM	-3.0	-11	RTL	3		12					250m		-54	71	1	G0248	M1
55	T803	2	1.0M	3DM	-3.0	-11	RTL	2		12					250m		-45	65	2	G0266	M17
56	PM7673	2	1.0M	3DM	-6.5	0.0	DTL	5		18	6								1	G0223	ZB37
57	PM7693	2	1.0M	3DM	-6.5	0.0	DTL	3		18	6								2	G0223a	ZB37
58	PM7803	2	1.0M	3DM	-6.5	0.0	DTL	6		18	6								1		ZB37
59	PM8403	2	1.0M	3DM	-6.5	0.0	DTL	5		18	6								1	G0222	ZB37
60	PM8413	2	1.0M	3DM	-6.5	0.0	DTL	3		18	6								2	G0222a	ZB37
61	PM9393	2	1.0M	3DM	-6.5	0.0	DTL			18	6								1		ZB37
62	PM10723	2	1.0M	3DM	-6.5	0.0	DTL			18	6								2		ZB37
63	PM10733	2	1.0M	3DM	-6.5	0.0	DTL	4		18	6								1		ZB37
64	SRG1	2	1.5M	PCB	0.0	8.0	RDL	4	Δ	0	12						-40	75	6	G0227	CB10
65	LCE209	2	2.0M	MOH	-6.0	0.0†		5		12	6	20n					-10	55	1		CN27
66	DC2CSOG3	2	2.0M	PCB	6.0	0.0		3	6	18	18	50n	150n	250n		1.2	-55	100	8		
67	DC2CSOG5	2	2.0M	PCB	6.0	0.0		5	6	18	18	50n	150n	250n		1.2	-55	100	3		
68	DC2COG3	2	2.0M	PCB	-6.0	0.0		3	6	18	18	50n	150n	250n		1.2	-55	55	8		
69	DC2COG5	2	2.0M	PCB	-6.0	0.0		5	6	18	18	50n	150n	250n		1.2	-55	55	3		
70	DC2MSOG3	2	2.0M	PCM	6.0	0.0		3	6	18	18	50n	150n	250n		1.2	-55	100	2		
71	DC2MSOG5	2	2.0M	PCM	6.0	0.0		5	6	18	18	50n	150n	250n		1.2	-55	100	1		
72	DC2MOG3	2	2.0M	PCM	-6.0	0.0		3	6	18	18	50n	150n	250n		1.2	-55	100	2		
73	DC2MOG5	2	2.0M	PCM	-6.0	0.0		5	6	18	18	50n	150n	250n		1.2	-55	55	1		
74	EM3009C	2	2.0M	3DM	0.0	6.0	RDL	5	1	0	12	10n	250n	10n	36m	500m	-55	125	2	G0240	M62a
75	EM2609	2	2.0M	3DM	0.0	-6.0	RDL	3	1	12	0				12m	500m	-55	71	2	G0275	M62b
76	EM2609A	2	2.0M	3DM	0.0	-6.0	RDL	5	1	12	0				12m	500m	-55	71	1	G0275a	M62b
77	OG21-1	2	2.0M	3DM	12	0.0	DDL	3	3			10n	50n	20n	21m	2.0	-35	125	1	G027g	M16
78	OG21-2	2	2.0M	3DM	12	0.0	DDL	5	3			10n	50n	20n	21m	2.0	-35	125	1	G027h	M16
79	OG21-3	2	2.0M	3DM	12	0.0	DDL	9	3			10n	50n	20n	21m	2.0	-35	125	1	G027j	M16
80	OG22-1	2	2.0M	3DM	12	0.0	DDL	2	3			10n	50n	20n	42m	2.0	-35	125	2	G027k	M16
81	OG22-2	2	2.0M	3DM	12	0.0	DDL	4	3			10n	50n	20n	42m	2.0	-35	125	2	G027l	M16
82	OG23-1	2	2.0M	3DM	12	0.0	DDL	2	3			10n	50n	20n	63m	2.0	-35	125	3	G027m	M16
83	OG24-1	2	2.0M	3DM	12	0.0	DDL	3	3			10n	50n	20n	84m	2.0	-35	125	2	G0211a	M16
84	RG1A	2	3.0M	PCB	-10	0.0	RDL	4	Δ	12	0						-20	55	6	G0227	CB10
85	B16751	2	4.0M				TTL	4	9	0.0	4.0	15n			20m		-55	125	1		TO100
86	B46751	2	4.0M				TTL	4	9	0.0	4.0	15n			20m		-55	125	1		FP26a
87	561BE	2	4.0M	MON			TTL	4	9	0	4	15n			20m		-55	125	1		
88	561BH	2	4.0M	MON			TTL	4	9	0	4	15n			20m		-55	125	1		
89	IO6H	2	5.0M	MOH	0.0	5.0		6	10	0	5	70nΔ			100m	1.0	0	100	6	G0235	CB7
90	IO6L	2	5.0M	MOH	0.0	5.0		6	10	0	5	70nΔ			100m	1.0	-15	55	6	G0235	CB7
91	IO6M	2	5.0M	MOH	0.0	5.0		6	10	0	5	70nΔ			100m	1.0	0	70	6	G0235	CB7
92	IO12H	2	5.0M	MOH	0.0	5.0		3	10	0.0	5.0	70nΔ			50m	1.0 Δ	0	100	12	G0254a	CB7
93	IO12M	2	5.0M	MOH	0.0	5.0		3	10	0.0	5.0	70nΔ			50m	1.0 Δ	0	70	6	G0235	CB7
94	IO12L	2	5.0M	PCB	0.0	5.5	RTL	3	10	0	5.5				75m		0	55	12	G0254a	CB7
95	IO12S	2	5.0M	PCB	0.0	5.5	RTL	3	10	0	5.5				75m		-40	85	12	G0254a	CB7
96	CT656	2	5.0M	PCB	2.5	0.0	DTL	8	4	0.0	5.0	30n				350m	0	75			
97	GDG3-5	2	5.0M	PCB	-10	0.0	DTL	5†	15	12	6.0	50n	60n	100n	1.3		0	55	7	G0271	CB15
98	GIG1-5	2	5.0M	PCB	-10	0.0	DTL	3†	1	12	6.0	10n	60n		192m	1.5	0	55	10	G0272	CB15
99	DG433	2	5.0M	3DM	0.0	-6.0	DDL	2									-25	60	4	G0243a	M2
100	RG2	2	8.0M	PCB	-10	0.0	RDL	4	Δ	12	0						-20	55	6	G0227	CB10
101	SN1580	2	10M	MON	2.5	.40	DTL	4		0.0	5.5				10m	750m	0	70	2		TO84
102	SN1580P	2	10M	MON	2.5	.40	DTL	4		0.0	5.5				10m	750m	0	70	2		M63
103	UC709	2	10M	PCB	0.0	6.0	DTL	4	3	12	12	60n	2.0u		20m	1.3	-55	125	3	G0247	CB16
104	BT27	2	10M	PCB	4.0	0.0	DTL	3†	14	0	8	30n	5.0n	5.0n	2.0	1.5	5	71	12	G0254b	CB37a
105	MM10423	2	10M	3DM	6.0	0.0	DTL	3		6	6								1		MP38
106	MM10423D	2	10M	3DM	6.0	0.0	DTL	3		6	6								2		MP38
107	OG31-1	2	10M	3DM	-12	0.0	DDL	3	5	12		10n	10n	50n	25m	2.0	-35	65	1	G027a	M15
108	OG31-2	2	10M	3DM	-12	0.0	DDL	5	5	12		10n	10n	50n	25m	2.0	-35	65	1	G027b	M15
109	OG32-2	2	10M	3DM	-12	0.0	DDL	2	5	12		10n	10n	50n	50m	2.0	-35	65	2	G027d	M15
110	6G50G	2	20M	MON	3.3	.26	TTL	9	15†	0	5	12n	6.0n	8.0n	30m	900m	-55	125	1	G0218	TO84

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	6G50K	2	20M	MON	3.3	.26	TTL	9	15†	0	5	12n	6.0n	8.0n	30m	900m	-55	125	1	G0218	TO116
2	6G51G	2	20M	MON	3.3	.26	TTL	9	7†	0	5	12n	6.0n	8.0n	30m	900m	-55	125	1	G0218	TO84
3	6G51K	2	20M	MON	3.3	.26	TTL	9	7†	0	5	12n	6.0n	8.0n	30m	900m	-55	125	1	G0218	TO116
4	6G52D	2	20M	MON	3.3	.26	TTL	9	12†	0	5	12n	6.0n	8.0n	30m	900m	0	75	1	G0218	TO116
5	6G52G	2	20M	MON	3.3	.26	TTL	9	12†	0	5	12n	6.0n	8.0n	30m	900m	0	75	1	G0218	TO84
6	6G53D	2	20M	MON	3.3	.26	TTL	9	6†	0	5	12n	6.0n	8.0n	30m	900m	0	75	1	G0218	TO116
7	6G53G	2	20M	MON	3.3	.26	TTL	9	6†	0	5	12n	6.0n	8.0n	30m	900m	0	75	1	G0218	TO84
8	6G100G	2	20M	MON	3.3	.26	TTL	10Δ	15†	0	5	12n	6.0n	8.0n	25m	900m	-55	125	1	G0219	TO84
9	6G100K	2	20M	MON	3.3	.26	TTL	10Δ	15†	0	5	12n	6.0n	8.0n	25m	900m	-55	125	1	G0219	TO116
10	6G101G	2	20M	MON	3.3	.26	TTL	10Δ	7†	0	5	12n	6.0n	8.0n	25m	900m	-55	125	1	G0219	TO84
11	6G101K	2	20M	MON	3.3	.26	TTL	10Δ	7†	0	5	12n	6.0n	8.0n	25m	900m	-55	125	1	G0219	TO116
12	6G102D	2	20M	MON	3.3	.26	TTL	10Δ	12†	0	5	12n	6.0n	8.0n	25m	900m	0	75	1	G0219	TO116
13	6G102G	2	20M	MON	3.3	.26	TTL	10Δ	12†	0	5	12n	6.0n	8.0n	25m	900m	0	75	1	G0219	TO84
14	6G103D	2	20M	MON	3.3	.26	TTL	10Δ	6†	0	5	12n	6.0n	8.0n	25m	900m	0	75	1	G0219	TO116
15	6G103G	2	20M	MON	3.3	.26	TTL	10Δ	6†	0	5	12n	6.0n	8.0n	25m	900m	0	75	1	G0219	TO84
16	6G110G	2	20M	MON	3.3	.26	TTL	9Δ	15†	0	5	12n	6.0n	8.0n	20m	900m	-55	125	1	G0220	TO84
17	6G110K	2	20M	MON	3.3	.26	TTL	9Δ	15†	0	5	12n	6.0n	8.0n	20m	900m	-55	125	1	G0220	TO116
18	6G111G	2	20M	MON	3.3	.26	TTL	9Δ	7†	0	5	12n	6.0n	8.0n	20m	900m	-55	125	1	G0220	TO84
19	6G111K	2	20M	MON	3.3	.26	TTL	9Δ	7†	0	5	12n	6.0n	8.0n	20m	900m	-55	125	1	G0220	TO116
20	6G112D	2	20M	MON	3.3	.26	TTL	9Δ	12†	0	5	12n	6.0n	8.0n	20m	900m	0	75	1	G0220	TO116
21	6G112G	2	20M	MON	3.3	.26	TTL	9Δ	12†	0	5	12n	6.0n	8.0n	20m	900m	0	75	1	G0220	TO84
22	6G113D	2	20M	MON	3.3	.26	TTL	9Δ	6†	0	5	12n	6.0n	8.0n	20m	900m	0	75	1	G0220	TO116
23	6G113G	2	20M	MON	3.3	.26	TTL	9Δ	6†	0	5	12n	6.0n	8.0n	20m	900m	0	75	1	G0220	TO84
24#	MMG50#1	2	20M	MON	3.3	.26	TTL	9	15	0.0	5.0	12n	6.0n	8.0n	30m	900m	-55	125	1	G0218	FP18
25#	MMG50#2	2	20M	MON	3.3	.26	TTL	9	15	0.0	5.0	12n	6.0n	8.0n	30m	900m	-55	125	1	G0218	M75
26#	MMG51#1	2	20M	MON	3.3	.26	TTL	9	7	0.0	5.0	12n	6.0n	8.0n	30m	900m	-55	125	1	G0218	FP18
27#	MMG51#2	2	20M	MON	3.3	.26	TTL	9	7	0.0	5.0	12n	6.0n	8.0n	30m	900m	-55	125	1	G0218	M75
28#	MMG100#1	2	20M	MON	3.3	.26	TTL	10	15	0.0	5.0	12n	6.0n	8.0n	25m	900m	-55	125	1	G0219	FP18
29#	MMG100#2	2	20M	MON	3.3	.26	TTL	10	15	0.0	5.0	12n	6.0n	8.0n	25m	900m	-55	125	1	G0219	M75
30#	MMG101#1	2	20M	MON	3.3	.26	TTL	10	7	0.0	5.0	12n	6.0n	8.0n	25m	900m	-55	125	1	G0219	FP18
31#	MMG101#2	2	20M	MON	3.3	.26	TTL	10	7	0.0	5.0	12n	6.0n	8.0n	25m	900m	-55	125	1	G0219	M75
32#	MMG110#1	2	20M	MON	3.3	.26	TTL	9	15	0.0	5.0	12n	6.0n	8.0n	20m	900m	-55	125	1	G0220	FP18
33#	MMG110#2	2	20M	MON	3.3	.26	TTL	9	15	0.0	5.0	12n	6.0n	8.0n	20m	900m	-55	125	1	G0220	M75
34#	MMG111#1	2	20M	MON	3.3	.26	TTL	9	7	0.0	5.0	12n	6.0n	8.0n	20m	900m	-55	125	1	G0220	FP18
35#	MMG111#2	2	20M	MON	3.3	.26	TTL	9	7	0.0	5.0	12n	6.0n	8.0n	20m	900m	-55	125	1	G0220	M75
36	SG50	2	20M	MON	3.3	.26	TTL	9	15†	0	5	12n	6.0n	8.0n	30m	900m	-55	125	1	G0218	ZB100
37	SG51	2	20M	MON	3.3	.26	TTL	9	7†	0	5	12n	6.0n	8.0n	30m	900m	-55	125	1	G0218	ZB100
38	SG52	2	20M	MON	3.3	.26	TTL	9	12†	0	5	12n	6.0n	8.0n	30m	900m	0	75	1	G0218	ZB100
39	SG53	2	20M	MON	3.3	.26	TTL	9	6†	0	5	12n	6.0n	8.0n	30m	900m	0	75	1	G0218	ZB100
40	SG100	2	20M	MON	3.3	.26	TTL	10Δ	15†	0	5	12n	6.0n	8.0n	25m	900m	-55	125	1	G0219	ZB100
41	SG101	2	20M	MON	3.3	.26	TTL	10Δ	7†	0	5	12n	6.0n	8.0n	25m	900m	-55	125	1	G0219	ZB100
42	SG102	2	20M	MON	3.3	.26	TTL	10Δ	12†	0	5	12n	6.0n	8.0n	25m	900m	0	75	1	G0219	ZB100
43	SG103	2	20M	MON	3.3	.26	TTL	10Δ	6†	0	5	12n	6.0n	8.0n	25m	900m	0	75	1	G0219	ZB100
44	SG110	2	20M	MON	3.3	.26	TTL	9Δ	15†	0	5	12n	6.0n	8.0n	20m	900m	-55	125	1	G0220	ZB100
45	SG111	2	20M	MON	3.3	.26	TTL	9Δ	7†	0	5	12n	6.0n	8.0n	20m	900m	-55	125	1	G0220	ZB100
46	SG112	2	20M	MON	3.3	.26	TTL	9Δ	12†	0	5	12n	6.0n	8.0n	20m	900m	0	75	1	G0220	ZB100
47	SG113	2	20M	MON	3.3	.26	TTL	9Δ	6†	0	5	12n	6.0n	8.0n	20m	900m	0	75	1	G0220	ZB100
48	RG50P	2	20M	MON	3.4	.20	TTL	9	15	0.0	5.0	12n			120m†	1.1	-55	125	4		M105k
49	RG51P	2	20M	MON	3.4	.20	TTL	9	7	0.0	5.0	12n			120m†	1.1	-55	125	4		M105k
50	RG52P	2	20M	MON	3.4	.20	TTL	9	12	0.0	5.0	12n			120m†	1.1	0	75	4		M105k
51	RG53P	2	20M	MON	3.4	.20	TTL	9	6	0.0	5.0	12n			120m†	1.1	0	75	4		M105k
52	RG70P	2	20M	MON	3.4	.20	TTL	4	15	0.0	5.0	12n			40m†	1.1	-55	125	2		M105k
53	RG71P	2	20M	MON	3.4	.20	TTL	4	7	0.0	5.0	12n			40m†	1.1	-55	125	2		M105k
54	RG72P	2	20M	MON	3.4	.20	TTL	4	12	0.0	5.0	12n			40m†	1.1	0	75	2		M105k
55	RG73P	2	20M	MON	3.4	.20	TTL	4	6	0.0	5.0	12n			40m†	1.1	0	75	2		M105k
56	RG100P	2	20M	MON	3.4	.20	TTL	9	15	0.0	5.0	12n			75m†	1.1	-55	125	3		M105k
57	RG101P	2	20M	MON	3.4	.20	TTL	9	7	0.0	5.0	12n			75m†	1.1	-55	125	3		M105k
58	RG102P	2	20M	MON	3.4	.20	TTL	9	12	0.0	5.0	12n			75m†	1.1	0	75	3		M105k
59	RG103P	2	20M	MON	3.4	.20	TTL	9	6	0.0	5.0	12n			75m†	1.1	0	75	3		M105k
60	RG110P	2	20M	MON	3.4	.20	TTL	8	15	0.0	5.0	12n			20m†	1.1	-55	125	1		M105k
61	RG111P	2	20M	MON	3.4	.20	TTL	8	7	0.0	5.0	12n			20m†	1.1	-55	125	1		M105k
62	RG112P	2	20M	MON	3.4	.20	TTL	8	12	0.0	5.0	12n			20m†	1.1	0	75	1		M105k
63	RG113P	2	20M	MON	3.4	.20	TTL	8	6	0.0	5.0	12n			20m†	1.1	0	75	1		M105k
64	TG445	2	20M	MON	3.5	.25	TTL	4	15†	0	6	12n	5.0n	8.0n	60m	1.0 Δ	-55	125	2	G02110	ZB159
65	TG446	2	20M	MON	3.5	.25	TTL	4	15†	0	6	12n	5.0n	8.0n	60m	1.0 Δ	0	75	2	G02110	ZB159
66	TG447	2	20M	MON	3.5	.25	TTL	4	7†	0	6	12n	5.0n	8.0n	60m	1.0 Δ	-55	125	2	G02110	ZB159
67	TG448	2	20M	MON	3.5	.25	TTL	4	7†	0	6	12n	5.0n	8.0n	60m	1.0 Δ	0	75	2	G02110	ZB159
68	TG461	2	20M	MON	3.5	.25	TTL	4	15†	0	6	15n	5.0n	8.0n	80m	1.0 Δ	-55	125	2	G02113	ZB159
69	TG462	2	20M	MON	3.5	.25	TTL	4	15†	0	6	15n	5.0n	8.0n	80m	1.0 Δ	0	75	2	G02113	ZB159
70	TG463	2	20M	MON	3.5	.25	TTL	4	7†	0	6	15n	5.0n	8.0n	80m	1.0 Δ	-55	125	2	G02113	ZB159
71	TG464	2	20M	MON	3.5	.25	TTL	4	7†	0	6	15n	5.0n	8.0n	80m	1.0 Δ	0	75	2	G02113	ZB159
72	GDG5-20	2	20M	PCB	-10	0.0	TTL	3	5	12	6.0	8.0n	8.0n	8.0n	432m		0	55	4	G0273	CB15
73	LU333A	2	35M		3.8%	.60		3	16	0	6	35n			44m†	1.2	-10	55	2		M114c
74#	MMG210#1	2	40M	MON	1.7%	1.2*	TTL	8	11	0.0	5.0	7.0n			30m	1.0	-55	125	2	G0283	FP18
75#	MMG210#2	2	40M	MON	1.7%	1.2*	TTL	8	11	0.0	5.0	7.0n			30m	1.0	-55	125	2	G0283	M75
76#	MMG211#1	2	40M	MON	1.7%	1.2*	TTL	8	6	0.0	5.0	7.0n			30m	1.0	-55	125	2	G0283	FP18
77#	MMG211#2	2	40M	MON	1.7%	1.2*	TTL	8	6	0.0	5.0	7.0n			30m	1.0	-55	125	2	G0283	M75
78#	MMG212#1	2	40M	MON	1.7%	1.2*	TTL	8	9	0.0	5.0	7.0n			30m	1.0	-55	125	2	G0283	FP18
79#	MMG212#2	2	40M	MON	1.7%	1.2*	TTL	8	9	0.0	5.0	7.0n			30m	1.0	-55	125	2	G0283	M75
80#	MMG213#1	2	40M	MON	1.7%	1.2*	TTL	8	5	0.0	5.0	7.0n			30m	1.0	-55	125	2	G0283	FP18
81#	MMG213#2	2	40M	MON	1.7%	1.2*	TTL	8	5	0.0	5.0	7.0n			30m	1.0	-55	125	2	G0283	M75
82#	MMG250#1	2	40M	MON	1.7%	1.2*	TTL	8	5	0.0	5.0	7.0n			43m	1.0	-55	125	1	G0282	FP18
83#	MMG250#2	2	40M	MON	1.7%	1.2*	TTL	8	5	0.0	5.0	7.0n			43m	1.0	-55	125	1	G0282	M75
84#	MMG251#1	2	40M	MON	1.7%	1.2*	TTL	9	11	0.0	5.0	7.0n			43m	1.0	-55	125	1	G0282	FP18
85#	MMG251#2	2	40M	MON	1.7%	1.2*	TTL	9	11	0.0	5.0	7.0n			43m	1.0	-55	125	1	G0282	M75
86#	MMG252#1	2	40M	MON	1.7%	1.2*	TTL	9	9	0.0	5.0	7.0n			43m	1.0	0	75	1	G0282	FP18
87#	MMG252#2	2	40M	MON	1.7%	1.2*	TTL	9	9	0.0	5.0	7.0n			43m	1.0	0	75	1	G0282	M75
88#	MMG253#1	2	40M	MON	1.7%	1.2*	TTL	9	5	0.0	5.0	7.0n			43m	1.0	0	75	1	G0282	FP18
89#	MMG253#2	2	40M	MON	1.7%	1.2*	TTL	9	5	0.0	5.0	7.0n			43m	1.0	0	75	1	G0282	M75
90	10110E	2	120M		-.96	-1.8	ECL	3	90	5.2	0.0	2.5n	3.0n	3.0n	120m	400m	-30	85			M153a
91	CTuL997279	2.1		MON			RTL	4†	11	2.0	4.5	3.0n			3.0		15	55	3	G02120b	TO116
92#	SP10117L	2,1		MON	-.96%	-1.6*†	ECT	4†	10	5.2	0.0	2.2n†	2.2n†	2.2n†	100m†		0	75	2	G02166	M191
93#	SP10118L	2,1		MON	-.96%	-1.6*†	ECT	6†	70	5.2	0.0	2.3n†	2.3n†	2.3n†	100m†		0	75	2	G02167	M191
94#	SP10119L	2,1		MON	-.96%	-1.6*†	ECT	4†	90	5.2	0.0	2.3n†	2.3n†	2.3n†	100m†		0	75	4	G02168	M191
95	SN54H52F	2,1		MON	2.0%	.80*	TTL	10Δ	10	0	7	15nΔ				1.0 Δ	-55	125	1	G02124	TO84
96	SN74H52F	2,1		MON	2.0%	.80*	TTL	10Δ	10	0	7	15nΔ				1.0 Δ	0	70	1	G02124	TO84
97	US5452A	2,1		MON	2.0%	.80*	TTL	10Δ	10	0.0	7.0	15nΔ				1.0 Δ	-55	125	1	G02124	M105b
98	US5452J	2,1		MON	2.0%	.80*	TTL	10Δ	10	0.0	7.0	15nΔ				1.0 Δ	-55	125	1	G02124	TO88
99	US7452A	2,1		MON	2.0%	.80*	TTL	10Δ	10	0.0	7.0	15nΔ				1.0 Δ	0	70	1	G02124	M105b
100	US7452J	2,1		MON	2.0%	.80*	TTL	10Δ	10	0.0	7.0	15nΔ				1.0 Δ	0	70	1	G02124	TO88
101	TNG7251F	2,1		MON	3.0%	.45*†	TTL	5Δ	15	0	7	12n			80m†		-55	125	2	G02111	FP21c
102	TNG7251P	2,1		MON	3.0%	.45*†	TTL	5Δ	15	0	7	12n			80m†		-55	125	2	G02111	TO116
103	TNG7252F	2,1		MON	3.0%	.45*†	TTL	5Δ	15	0	7	12n			80m†		0	75	2	G02111	FP21c
104	TNG7252P	2,1		MON	3.0%	.45*†	TTL	5Δ	15	0	7	12n			80m†		0	75	2	G02111	TO116
105	TNG7253F	2,1		MON	3.0%	.45*†	TTL	5Δ	7	0	7	12n			80m†		-55	125	2	G02111	FP21c
106	TNG7253P	2,1		MON	3.0%	.45*†	TTL	5Δ	7	0	7	12n			80m†		-55	125	2	G02111	TO116
107	TNG7254F	2,1		MON	3.0%	.45*†	TTL	5Δ	7	0	7	12n			80m†		0	75	2	G02111	FP21c
108	TNG7254P	2,1		MON	3.0%	.45*†	TTL	5Δ	7	0	7	12n			80m†		0	75	2	G02111	TO116
109	LT13	2,1	10M%	PCB	4.0	0.0		8†	14	0.0	8.0	18n			690m	1.8	5	71	8		CB37a
110	LT14	2,1	10M%	PCB	4.0	0.0		8†	14	0.0	8.0	18n			800m	1.8	5	71	6		CB37a

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPER-ATING FREQ. (Hz)	3 PRO-CESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPA-GATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	10117E	2,1	135M		-.96	-1.8	ECL	3†	90	5.2	0.0	2.2n	3.0n	3.0n	100m	400m	-30	85			M153a
2	10118E	2,1	135M		-.96	-1.8	ECL	3	90	5.2	0.0	2.2n	3.0n	3.0n	100m	400m	-30	85			M153a
3#	SP554B	2,1A		MON	.23Δ	-1.5	ECT	6	10	7.0	4.0	18n			190m	300m	0	100	1	G02115	FP1
4	LT10	2,1C	10M	PCB	4.0	0.0	DTL	6†	14	0	8				1.2		5	71	9	G02105	CB37a
5#	SP552B	2,1E		MON	.23Δ	-1.5	ECT	6	10	7.0	4.0	18n			190m	300m	0	100	1	G02114	FP1
6	BT10	2,1E	10M	PCB	4.0	0.0	DTL	3		0	8				940m		5	71	8	G0298	CB37a
7	LT11	2,1E	10M	PCB	4.0	0.0	DTL	10†	27	0	8				990m		5	71	4	G02100	CB37a
8	WS371Q	2,3					DTL	4	15			10n			95mΔ				2	G0288	FP37
9	WS374Q	2,3					DTL	8	15			10n			95mΔ				1	G0289	FP37
10#	FKH111	2,3		MON	.01%	.58*	ECT	4	10	4	0	2.0n			120m		0	70	2	G02116	TO84
11#	SP10101L	2,3		MON	-.96%	-1.6*†	ECT	5	10	5.2	0.0	2.0n†	2.0n†	2.0n†	100m†		0	75	4	G02162	M191
12#	SP10105L	2,3		MON	-.96%	-1.6*†	ECT	3†	10	5.2	0.0	2.0n†	2.0n†	2.0n†	75m†		0	75	3	G02163	M191
13#	SP10109L	2,3		MON	-.96%	-1.6*†	ECT	5†	90	5.2	0.0	2.0n†	2.0n†	2.0n†	50m†		0	75	2	G02164	M191
14	PD502	2,3	1.0M	MON	0.0	-.50	ECT	4		3.3	.26	2.0	2.0	2.0	56 Δ		0	75	2	G02140	M54c
15	ECL2500	2,3	1.0M	MON	.15%	-.15*	ECT	4	35	3.2	1.32	2.5n	3.9n	3.0n		225mΔ	0	75	2	G02142	M117m
16	ECL2501	2,3	1.0M	MON	.15%	-.15*	ECT	9	35	3.2	1.32	2.5n	4.4n	4.8n		225mΔ	0	75	1	G02143	M117m
17	ECL2502	2,3	1.0M	MON	.15%	-.15*	ECT	2	35	3.2	1.32	2.5n	3.9n	3.0n		225mΔ	0	75	3	G02144	M117m
18	ECL2503	2,3	1.0M	MON	.15%	-.15*	ECT	2	35	3.2	1.32	2.5n	4.1n	4.0n		225mΔ	0	75	4	G02145	M117m
19	ECL2504	2,3	1.0M	MON	.15%	-.15*	ECT	1	35	3.2	1.32	2.5n	3.9n	3.0n		225mΔ	0	75	4	G02146	M117m
20	ECL2505	2,3	1.0M	MON	.15%	-.15*	ECT	3	35	3.2	1.32	2.5n	4.1n	4.0n		225mΔ	0	75	3	G02147	M117m
21	ECL2506	2,3	1.0M	MON	.15%	-.15*	ECT	3	35	3.2	1.32	2.5n	6.5n	5.6n		225mΔ	0	75	4	G02149	M117m
22	ECL2507	2,3	1.0M	MON	.15%	-.15*	ECT	2	35	3.2	1.32	2.5n	6.5n	5.6n		225mΔ	0	75	5	G02150	M117m
23	ECL2508	2,3	1.0M	MON	.15%	-.15*	ECT	2	35	3.2	1.32	2.5n	6.5n	5.6n		225mΔ	0	75	6	G02151	M117m
24	ECL2509	2,3	1.0M	MON	.15%	-.15*	ECT	2	35	3.2	1.32	2.5n	6.5n	6.3n		225mΔ	0	75	4	G02152	M117m
25	ECL2510	2,3	1.0M	MON	.15%	-.15*	ECT	3†	35	3.2	1.32	2.5n	6.5n	6.3n		225mΔ	0	75	4	G02153	M117m
26	ECL2511	2,3	1.0M	MON	.15%	-.15*	ECT	2	35	3.2	1.32	2.5n	4.5n	4.0n		225mΔ	0	75	4	G02148	M117m
27	ECL2512	2,3	1.0M	MON	.15%	-.15*	ECT	2	35	3.2	1.32	2.5n	6.5n	5.6n		225mΔ	0	75	6	G02154	M117m
28	ECL2513	2,3	1.0M	MON	.15%	-.15*	ECT	2	35	3.2	1.32	2.5n	6.5n	6.3n		225mΔ	0	75	4	G02155	M117m
29	ECL2515	2,3	1.0M	MON	.15%	-.15*	ECT	5†	35	3.2	1.32	2.5n	6.9n	6.6n		225mΔ	0	75	5	G02156	M117m
30	ECL2516	2,3	1.0M	MON	.15%	-.15*	ECT	3†	35	3.2	1.32	2.5n	6.9n	6.6n		225mΔ	0	75	7	G02157	M117m
31	ECL2520	2,3	1.0M	MON	.15%	-.15*	ECT	2	35	3.2	1.32	2.5n	6.5n	6.5n		225mΔ	0	75	2	G02158	M117m
32	ECL2521	2,3	1.0M	MON	.15%	-.15*	ECT	3	35	3.2	1.32	2.5n	6.5n	6.5n		225mΔ	0	75	2	G02159a	M117m
33	ECL2522	2,3	1.0M	MON	.15%	-.15*	ECT	4	35	3.2	1.32	2.5n	6.5n	6.5n		225mΔ	0	75	2	G02160	M117m
34	ECL2523	2,3	1.0M	MON	.15%	-.15*	ECT	3	35	3.2	1.32	2.5n	6.5n	6.5n		225mΔ	0	75	2	G02159	M117m
35	10101E	2,3	150M		-.96	-1.8	ECL	2†	90	5.2	0.0	2.0n	3.0n	3.0n	100m	400m	-30	85			M153a
36	10105E	2,3	150M		-.96	-1.8	ECL	3†	90	5.2	0.0	2.0n	3.0n	3.0n	75m	400m	-30	85			M153a
37	10109E	2,3	150M		-.96	-1.8	ECL	5†	90	5.2	0.0	2.0n	3.0n	3.0n	50m	400m	-30	85			M153a
38#	MB505	2,3M			.86	1.72		4	6	5.0	0.0	2.2nΔ	2.2n	2.8n	290m	300mΔ	10	60	1	G02174	FP21j
39	CD2100	2,3M		MON	-.75	-1.6†	ECT	4	12	5.7	0	24n			115m	320mΔ	-55	125	2	G02128	FP44
40#	MB501	2,3M		MON	-.85%	-1.5*	ECT	4	6	7.0	0.0	3.0n	7.0n	11n	290m	1.2	10	60	2	G02131	FP28
41#	MB502	2,3M		MON	-.85%	-1.5*	ECT	4	6	7.0	0.0	3.0n	7.0n	11n	260m	1.2	10	60	2	G02131a	FP28
42#	MB503	2,3M		MON	-.85%	-1.5*	ECT	8	6	7.0	0.0	3.0n	7.0n	11n	215m	1.2	10	60	1	G02122	FP28
43#	MB504	2,3M		MON	-.85%	-1.5*	ECT	2	6	7.0	0.0	3.0n	7.0n	11n	270m	1.2	10	60	4	G02141	FP28
44	CTuL952	2,3M	30M	MON	2.5	.50	RTL	2	12	2.0	4.5	12nΔ	15n		95m	500m*	15	55	2	G0232	M54
45	SN7000	2,3S		MON	.40	-.40	ECT	3†		3.5	1.3	5.0n			80m	250m	0	70	2	G0274	TO84
46	SN7001	2,3S		MON	.40	-.40	ECT	3†		3.5	1.3	5.0n			80m	250m	0	70	2	G0274a	TO84
47	BC11	2A	300k	PCB	8.0	0.0	DTL	15	22	25	25	180n	100n	80n	2.3	3.5	-55	100	7	G0226	CB34
48	BH11	2A	1.0M	PCB	8.0	0.0	DTL	10	20	25	25	100n	70n	30n	4.7	3.5	-55	100	7	G0226	CB34
49	IC11	2C	300k	PCB	8.0	0.0	DTL	15	7	25	25	110n	60n	50n	1.7	3.5	-55	100	7	G0226a	CB34
50	IH11	2C	1.0M	PCB	8.0	0.0	DTL	10	12	25	25	60n	35n	25n	3.6	3.5	-55	100	7	G0226a	CB34
51	IL11	2C	8.0M	PCB	8.0	0.0	DTL	10	16	25	25	25n	15n	10n	3.6	3.5	-55	100	7	G0226a	CB34
52	WM10423	2E	10M	3DM	6.0	0.0	DTL	4		6	18								1		M43
53	WM10423D	2E	10M	3DM	6.0	0.0	DTL	4		6	18								2		M43
54	469	2G	.30M	PCB	-6.8	0.0	DTL	3†	1	12	12		200n	500n	1.0		0	55	5	G0215	CB24
55	MIC320-1A	2M					RTL	5	4	0.0	4.0	5.0n			10	200m	-55	125	1		TO89
56	MIC320-1B	2M					RTL	5	4	0.0	4.0	5.0n			10	200m	-55	125	1		TO86
57	MIC320-1C	2M					RTL	5	4	0.0	4.0	5.0n			10	200m	-55	125	1		CN17
58	MIC320-2A	2M					RTL	5	4	0.0	4.0	5.0n			10	200m	0	100	1		TO89
59	MIC320-2B	2M					RTL	5	4	0.0	4.0	5.0n			10	200m	0	100	1		TO86
60	MIC320-2C	2M					RTL	5	4	0.0	4.0	5.0n			10	200m	0	100	1		CN17
61	MIC320-3A	2M					RTL	5	4	0.0	4.0	5.0n			10	200m	15	55	1		TO89
62	MIC320-3B	2M					RTL	5	4	0.0	4.0	5.0n			10	200m	15	55	1		TO86
63	MIC320-3C	2M					RTL	5	4	0.0	4.0	5.0n			10	200m	15	55	1		CN17
64	MIC340-1A	2M					RTL	3†	4	0.0	4.0	5.0n			20m	200m	-55	125	2		TO89
65	MIC340-1B	2M					RTL	3†	4	0.0	4.0	5.0n			20m	200m	-55	125	2		TO86
66	MIC340-1C	2M					RTL	3†	4	0.0	4.0	5.0n			20m	200m	-55	125	2		CN17
67	MIC340-2A	2M					RTL	3†	4	0.0	4.0	5.0n			20m	200m	0	100	2		TO89
68	MIC340-2B	2M					RTL	3†	4	0.0	4.0	5.0n			20m	200m	0	100	2		TO86
69	MIC340-2C	2M					RTL	3†	4	0.0	4.0	5.0n			20m	200m	0	100	2		CN17
70	MIC340-3A	2M					RTL	3†	4	0.0	4.0	5.0n			20m	200m	15	55	2		TO89
71	MIC340-3B	2M					RTL	3†	4	0.0	4.0	5.0n			20m	200m	15	55	2		TO86
72	MIC340-3C	2M					RTL	3†	4	0.0	4.0	5.0n			20m	200m	15	55	2		CN17
73	MC1060S	2MS		MON	-.75%	-1.6*	ECT	4	90	8	0	.90n%			110m†	250m	0	75	2	G02127	FP78
74	MC1001L	2MS	80M	MON	-.75	-1.6	ECT	6	150	8	0	4.0n	7.0n	8.0n	115m†	175m	0	75	1	G02106	TO116
75	MC1002L	2MS	80M	MON	-.75	-1.6	ECT	6	150	8	0	4.0n	7.0n	8.0n	80m†	175m	0	75	1	G02106a	TO116
76	MC1003L	2MS	80M	MON	-.75	-1.6	ECT	6	150	8	0	4.0n	7.0n	8.0n	40m†	175m	0	75	1	G02106b	TO116
77	MC1004L	2MS	80M	MON	-.75	-1.6	ECT	4	50	8	0	4.0n	7.0n	8.0n	95m†	175m	0	75	2	G02101	TO116
78	MC1005L	2MS	80M	MON	-.75	-1.6	ECT	4	50	8	0	4.0n	7.0n	8.0n	65m†	175m	0	75	2	G02101a	TO116
79	MC1006L	2MS	80M	MON	-.75	-1.6	ECT	4	50	8	0	4.0n	7.0n	8.0n	45m†	175m	0	75	2	G02101b	TO116
80	MC1024L	2MS	80M	MON	-.75	-1.6	ECT	3Δ	50	8	0	4.0n	7.0n	8.0n	95m†	175m	0	75	2	G02119	TO116
81	MC1023L	2MS 1	50M	MON	-.75	-1.6	ECT	4	50	8	0	2.0n	4.0n	4.5n	250m†	175m	0	75	2	G02109	TO116
82	B658	2S	.00M	PCB	-6.0	0.0	DTL	4	4	12	6				150m	2.0	-15	60	1	G0217	CB22
83	ML6410#1	3					DTL	3					2.0n						1	G0321	CN21
84	ML6410#2	3					DTL	3					2.0n						1	G0321	CN22
85	ML6410#3	3					DTL	3					2.0n						1	G0321	FP3
86	LU314	3			3.3%	.60*†		7	12	0.0	4.5	40n%			18mΔ	1.2 Δ	10	55	1		CN17
87	LU315	3			3.3%	.60*†		3	12	0.0	4.5	40n%			18mΔ	1.2 Δ	10	55	2		CN17
88	LU316	3			3.3%	.60*†		3Δ	12	0.0	4.5	40n%			18mΔ	1.2 Δ	10	55	2		CN17
89	LU331	3			3.3%	.60*†		3Δ	12	0.0	4.5	35n⍁			36mΔ	1.2 Δ	10	55	2		CN17
90	LU332	3			3.3%	.60*†		3	12	0.0	4.5	35n⍁			36mΔ	1.2 Δ	10	55	2		CN17
91	RC103	3		MON			RTL	3	5	0.0	10	20n			15m	300m	-55	125	1	G0365e	TO47
92	RC123	3		MON			RTL	3	5	0.0	10	20n			15m	300m	-55	125	1	G0365e	TO5
93	RC124	3		MON			TTL	3	5	0.0	10	20n			30m	300m	-55	125	2	G0365	CN17
94	RC144	3		MON			TTL	3	5	0.0	10	20n			30m	300m	-55	125	2	G0365	FP45
95	RC322A	3		MON			TTL	2	5	0.0	10	25n			50m	300m	-55	125	2	G0359	TO47
96	RC322B	3		MON			TTL	2	5	0.0	10	25n			50m	300m	-55	125	2	G0359	TO5
97	RC323B	3		MON			TTL	3	5	0.0	10	18n			8.0m	300m	-55	125	2	G0365	FP45
98	RC323C	3		MON			TTL	3	5	0.0	10	18n			8.0m	300m	-55	125	2	G0365	CN17
99	RC1031	3		MON			TTL	3	5	0.0	10	20n			15m	300m	0	65	2	G0368	CN51a
100	RC1032	3		MON			TTL	3	4	0.0	5.0	25n			15m	200m	0	65	1	G0368	CN51a
101	RC1033	3		MON			TTL	3	5	0.0	10	20n			15m	300m	-55	125	1	G0368	CN51a
102	RC1231	3		MON			TTL	3	5	0.0	10	20n			15m	300m	0	65	1	G0368	CN19
103	RC1232	3		MON			TTL	3	4	0.0	5.0	25n			15m	200m	0	65	1	G0368	CN19
104	RC1233	3		MON			TTL	3	5	0.0	10	20n			15m	300m	-55	125	1	G0368	CN19
105	RG3410P	3		MON			DTL	2	11	0.0	5	4.5n			120m†	1.1	-55	125	4		M105k
106	RG3412P	3		MON			DTL	2	9	0.0	5	4.5n			120m†	1.1	0	75	4		M105k
107	U5B990928	3		MON				2	30	0.0	3.6	40n			2.0m	250m	15	55	1	G0336	TO99
108	U5B990929	3		MON				2	30	0.0	3.6	40n			2.0m	250m	0	70	1	G0336	TO99
109	U5F990928	3		MON				2	30	0.0	3.6	40n			2.0m	250m	15	55	1	G0336	TO100
110	U5F990929	3		MON				2	30	0.0	3.6	40n			2.0m	250m	0	70	1	G0336	TO100

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	U8A990928	3		MON				2	30	0.0	3.6	40n			2.0m	250m	15	55	1	G0336	CN34
2	U8A990929	3		MON				2	30	0.0	3.6	40n			2.0m	250m	0	70	1	G0336	CN34
3	121AE	3		MON	.80	.25	TTL	3	10	0	3	15n			25m	300m	-55	125	1	G0353	
4	121AH	3		MON	.80	.25	TTL	3	10	0	3	15n			25m	300m	-55	125	1	G0353	
5	121BE	3		MON	.80	.25	TTL	3	5	0	3	15n			25m	265m	-55	125	1	G0353	
6	121BH	3		MON	.80	.25	TTL	3	5	0	3	15n			25m	265m	-55	125	1	G0353	
7	121CE	3		MON	.80	.25	TTL	3	5	0	3	15n			25m	250m	0	70	1	G0353	CN10
8	122AE	3		MON	.80	.25	TTL	4	10	0	3	15n			27m	300m	-55	125			CN12
9	122AH	3		MON	.80	.25	TTL	4	10	0	3	15n			27m	300m	-55	125	1	G0348a	
10	122BE	3		MON	.80	.25	TTL	4	5	0	3	15n			27m	265m	-55	125	1	G0348a	
11	122BH	3		MON	.80	.25	TTL	4	5	0	3	15n			27m	265m	-55	125	1	G0348a	
12	122CE	3		MON	.80	.25	TTL	4	5	0	3	15n			27m	250m	0	70	1	G0348a	CN10
13	123AE	3		MON	.80	.25	TTL	5	10	0	3	15n			25m	300m	-55	125	1	G0348	CN12
14	123AH	3		MON	.80	.25	TTL	5	10	0	3	15n			25m	300m	-55	125	1	G0348	
15	123BE	3		MON	.80	.25	TTL	5	5	0	3	15n			25m	265m	-55	125	1	G0348	
16	123BH	3		MON	.80	.25	TTL	5	10	0	3	15n			25m	265m	-55	125	1	G0348	FP28
17	123CE	3		MON	.80	.25	TTL	5	5	0	3	15n			25m	250m	0	70	1	G0348	
18	124AE	3		MON	.80	.25	TTL	2	10	0	3	15n			44m	300m	-55	125			CN12
19	124AH	3		MON	.80	.25	TTL	2	10	0	3	15n			44m	300m	-55	125	2	G0350	
20	124BE	3		MON	.80	.25	TTL	2	5	0	3	15n			44m	265m	-55	125	2	G0350	
21	124BH	3		MON	.80	.25	TTL	2	5	0	3	15n			44m	265m	-55	125	2	G0350	
22	124CE	3		MON	.80	.25	TTL	2	5	0	3	15n			44m	250m	0	70	2	G0350	CN10
23	125AE	3		MON	.80	.25	TTL	3	10	0	3	15n			44m	300m	-55	125			CN12
24	125BE	3		MON	.80	.25	TTL	3	5	0	3	15n			44m	265m	-55	125	2	G0351	
25	125BH	3		MON	.80	.25	TTL	3	5	0	3	15n			44m	265m	-55	125	2	G0351	
26	125CE	3		MON	.80	.25	TTL	3	5	0	3	15n			44m	250m	0	70	2	G0351	CN11
27	126AE	3		MON	.80	.25	TTL	3	10	0.0	3.0	15n			44m	300m	-55	125	2		
28	126AH	3		MON	.80	.25	TTL	3	10	0.0	3.0	15n			44m	300m	-55	125	2		
29	126BE	3		MON	.80	.25	TTL	3	5	0.0	3.0	15n			44m	265m	-55	125	2		
30	126BH	3		MON	.80	.25	TTL	3	5	0.0	3.0	15n			44m	265m	-55	125	2		
31	126CE	3		MON	.80	.25	TTL	3	5	0.0	3.0	15n			44m	250m	0	70	2		CN10
32	128AE	3		MON	.80	.25	TTL	6	10	0	3	15n			88m	300m	-55	125	4	G0352	
33	128AH	3		MON	.80	.25	TTL	6	10	0	3	15n			88m	300m	-55	125	4	G0352	
34	128BE	3		MON	.80	.25	TTL	6	5	0.0	3.0	15n			88m	265m	-55	125	4		
35	128BH	3		MON	.80	.25	TTL	6	5	0.0	3.0	15n			88m	265m	-55	125	4		
36	128CE	3		MON	.80	.25	TTL	6	5	0	3	15n			88m	250m	0	70	4	G0352	CN12
37	G11004	3		MON	.80	.25	TTL	5	5	0.0	3.0	15n			25m	250m	0	70	1	G0348	CN10
38	G11008	3		MON	.80	.25	TTL	5	5	0.0	3.0	15n			25m	265m	-55	125	1	G0348	CN10
39	G41001	3		MON	.80	.25	TTL	5	10	0.0	3.0	15n			25m	300m	-55	125	1	G0348	FP26
40	J11001	3		MON	.80	.25	TTL	4	10	0.0	3.0	15n			27m	300m	-55	125	1	G0349	CN10
41	J11004	3		MON	.80	.25	TTL	4	5	0.0	3.0	15n			27m	250m	0	70	1	G0349	CN10
42	J11008	3		MON	.80	.25	TTL	4	5	0.0	3.0	15n			27m	265m	-55	125	1	G0349	CN10
43	J21001	3		MON	.80	.25	TTL	4	10	0.0	3.0	15n			27m	300m	-55	125	1	G0349	TO70
44	J41001	3		MON	.80	.25	TTL	4	10	0.0	3.0	15n			27m	300m	-55	125	1	G0349	CN10
45	J41008	3		MON	.80	.25	TTL	4	5	0.0	3.0	15n			27m	265m	-55	125	1	G0349	FP26
46	K11001	3		MON	.80	.25	TTL	3	10	0.0	3.0	15n			25m	300m	-55	125	1	G0353	CN10
47	K11004	3		MON	.80	.25	TTL	3	5	0.0	3.0	15n			25m	250m	0	70	1	G0353	CN10
48	K11008	3		MON	.80	.25	TTL	3	5	0.0	3.0	15n			25m	265m	-55	125	1	G0353	CN10
49	K41001	3		MON	.80	.25	TTL	3	10	0.0	3.0	15n			25m	300m	-55	125	1	G0353	FP26
50	K41008	3		MON	.80	.25	TTL	3	5	0.0	3.0	15n			25m	265m	-55	125	1	G0353	FP26
51	L11001	3		MON	.80	.25	TTL	2	10	0.0	3.0	15n			44m	300m	-55	125	2	G0350	CN10
52	L11004	3		MON	.80	.25	TTL	2	5	0.0	3.0	15n			44m	250m	0	70	2	G0350	CN10
53	L11008	3		MON	.80	.25	TTL	2	5	0.0	3.0	15n			44m	265m	-55	125	2	G0350	CN10
54	L41001	3		MON	.80	.25	TTL	2	10	0.0	3.0	15n			44m	300m	-55	125	2	G0350	FP26
55	L41008	3		MON	.80	.25	TTL	2	5	0.0	3.0	15n			44m	265m	-55	125	2	G0350	FP26
56	M11001	3		MON	.80	.25	TTL	3	10	0.0	3.0	15n			44m	300m	-55	125	2	G0351	CN11
57	M11004	3		MON	.80	.25	TTL	3	5	0.0	3.0	15n			44m	250m	0	70	2	G0351	CN11
58	M11008	3		MON	.80	.25	TTL	3	5	0.0	3.0	15n			44m	265m	-55	125	2	G0351	CN11
59	M41001	3		MON	.80	.25	TTL	3	10	0.0	3.0	15n			44m	300m	-55	125	2	G0351	FP26
60	M41008	3		MON	.80	.25	TTL	3	5	0.0	3.0	15n			44m	265m	-55	125	2	G0351	FP26
61	N11001	3		MON	.80	.25	TTL	3	10	0.0	3.0	15n			44m	300m	-55	125	2	G0351a	CN11
62	N11004	3		MON	.80	.25	TTL	3	5	0.0	3.0	15n			44m	250m	0	70	2	G0351a	CN11
63	N11008	3		MON	.80	.25	TTL	3	5	0.0	3.0	15n			44m	265m	-55	125	2	G0351a	CN11
64	N41001	3		MON	.80	.25	TTL	3	10	0.0	3.0	15n			44m	300m	-55	125	2	G0351a	FP26
65	N41008	3		MON	.80	.25	TTL	3	5	0.0	3.0	15n			44m	265m	-55	125	2	G0351a	FP26
66	Q11001	3		MON	.80	.25	TTL	6	10	0.0	3.0	15n			88m	300m	-55	125	4	G0352	CN12
67	Q11004	3		MON	.80	.25	TTL	6	5	0.0	3.0	15n			88m	250m	0	70	4	G0352	CN12
68	Q11008	3		MON	.80	.25	TTL	6	5	0.0	3.0	15n			88m	265m	-55	125	4	G0352a	CN12
69	Q41001	3		MON	.80	.25	TTL	6	10	0.0	3.0	15n			88m	300m	-55	125	4	G0352	FP26
70	Q41008	3		MON	.80	.25	TTL	6	5	0.0	3.0	15n			88m	265m	-55	125	4	G0352a	FP26
71	SN17910	3		MON	.81*	.20*	RTL	2	4	0.0	5.0		150n	55n			-55	125	2	G03153	
72	PL983	3		MON	.82	.45	RTL	2		0.0	4.0				3.0m		-55	125	4	G0359a	FP1
73	PL985	3		MON	.82	.45	RTL	3		0.0	4.0				3.0m		-55	125	3	G0365a	FP1
74	PL9983	3		MON	.82	.45	RTL	2		0.0	4.0				3.0m		-55	125	4	G0359a	FP1
75	PL9985	3		MON	.82	.45	RTL	3		0.0	4.0				3.0m		-55	125	3	G0365a	FP1
76	PL910#1	3		MON	.90	.15	RTL	2	4	0.0	3.0				4.0m		-55	125	2	G0366	CN13
77	PL910#2	3		MON	.90	.15	RTL	2	4	0.0	3.0				4.0m		-55	125	2	G0366	FP2
78	PL939#1	3		MON	.90	.15	RTL	3	4	0.0	3.0				4.0m		-55	125	2		CN13
79	PL939#2	3		MON	.90	.15	RTL	3	4	0.0	3.0				4.0m		-55	125	2		FP2
80	PL976	3		MON	.90	.15	RTL	2	33	0.0	4.0	30n			10m		-55	125	1	G0379	FP2
81	PL977	3		MON	.90	.15	RTL	2	5	0.0	4.0	14n			3.0m		-55	125	2	G0378	FP2
82	PL978	3		MON	.90	.15	RTL	3	5	0.0	4.0	14n			3.0m		-55	125	2	G0377	FP2
83	PL980	3		MON	.90	.15	RTL	4	5	0.0	4.0	14n			3.0m		-55	125	1	G0383	FP2
84	PL9910	3		MON	.90	.15	RTL	2	4	0.0	3.0				4.0m		-55	125	2	G0366	
85	PL9911	3		MON	.90	.15	RTL	2	4	0.0	3.0				4.0m		-55	125	2		
86	PL9939	3		MON	.90	.15	RTL	3	4	0.0	3.0				4.0m		-55	125	2		
87	PL9976	3		MON	.90	.15	RTL	2	33	0.0	4.0	30n			10m		-55	125	1	G0379	FP2
88	PL9977	3		MON	.90	.15	RTL	2	5	0.0	4.0	14n			3.0m		-55	125	2	G0378	FP2
89	PL9978	3		MON	.90	.15	RTL	3	5	0.0	4.0	14n			3.0m		-55	125	2	G0377	FP2
90	PL9980	3		MON	.90	.15	RTL	4	5	0.0	4.0	14n			3.0m		-55	125	1	G0383	FP2
91#	SFC207	3		MON	.92%	.35*	TTL	4	16	0	12	10n			20m†		0	70	1	G0380	TO99
92#	SFC209	3		MON	.92%	.35*	TTL	2	30	0	12	45n			10m†		0	70	1	G0379d	TO99
93#	SFC210	3		MON	.92%	.35*	TTL	2	4	0	12	25n			12m†		0	70	2	G0391	TO99
94#	SFC211	3		MON	.92%	.35*	TTL	4	4	0	12	25n			6m†		0	70	1	G0383	TO99
95#	SFC214	3		MON	.92%	.35*	TTL	2	4	0	12	10n			40m†		0	70	2	G0391	TO99
96#	SFC215	3		MON	.92%	.35*	TTL	3	16	0	3.6	10n			40m†		0	70	2	G0377	TO100
97#	SP1011	3		MON	-.75	-1.6†	ECT	2	25	5.2	0.0	4.5n%			95m†		0	75	4	G0366c	M257a
98#	SP10102L	3		MON	-.96%	-1.6*†	ECT	2	10	5.2	0.0	2.0n†	2.0n†	2.0n†	100m†		0	75	4	G03262	M191
99	PL903#1	3		MON	1.0	.15	RTL	3	5	0.0	3.0				27m		-55	125	1	G0382	CN13
100	PL903#2	3		MON	1.0	.15	RTL	3	5	0.0	3.0				27m		-55	125	1	G0382	FP2
101	PL907#1	3		MON	1.0	.15	RTL	4	5	0.0	3.0				27m		-55	125	1	G0380	CN13
102	PL907#2	3		MON	1.0	.15	RTL	4	5	0.0	3.0				27m		-55	125	1	G0380	FP2
103	PL914#1	3		MON	1.0	.15	RTL	4	5	0.0	3.0				54m		-55	125	2	G0366	CN13
104	PL914#2	3		MON	1.0	.15	RTL	4	5	0.0	3.0				54m		-55	125	2	G0366	CN13
105	PL915#1	3		MON	1.0	.15	RTL	4	5	0.0	3.0				54m		-55	125	2	G0377	CN13
106	PL915#2	3		MON	1.0	.15	RTL	3	5	0.0	3.0				54m		-55	125	2	G0377	FP2
107	PL9903	3		MON	1.0	.15	RTL	3	5	0.0	3.0				27m		-55	125	1	G0382	
108	PL9907	3		MON	1.0	.15	RTL	4	5	0.0	3.0				27m		-55	125	1	G0380	
109	PL9914	3		MON	1.0	.15	RTL	4	5	0.0	3.0				54m		-55	125	2	G0366	
110	PL9915	3		MON	1.0	.15	RTL	3	5	0.0	3.0				54m		-55	125	2	G0377	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1#	5402-1-6A	3		MON	2.0%	.80*	TTL	2	10	0.0	5.0	40n%			40m†		-55	125	4	G03233a	M157
2#	7402-9-6A	3		MON	2.0%	.80*	TTL	2	10	0.0	5.0	40n%			40m†		0	70	4	G03233a	M157
3	PD7402	3		MON	2.0%	.80*	TTL	2	10	0.0	5.0	29nΔ			14mΔ	1.0 Δ	0	75	4	G03173	M105v
4	SN5402	3		MON	2.0%	.80*	TTL	2	10	0.0	7.0	13n			14mΔ	1.0	-55	125	4	G03173	TO84
5	SN7402	3		MON	2.0%	.80*	TTL	2	10	0.0	7.0	22n			14mΔ	1.0	0	70	4	G03173	TO84
6	TG7402E	3		MON	2.0%	.80*	TTL	2	10	0.0	7.0	13n			14mΔ	1.0	-55	125	4	G03173	TO116
7	USN7402A	3		MON	2.0%	.80*	TTL	2	10	0	7	29nΔ			40m	1.0 Δ	0	70	4	G03173	TO116
8	USN7402J	3		MON	2.0%	.80*	TTL	2	10	0	7	29nΔ			40m	1.0 Δ	0	70	4	G03173	TO88
9	USS5402A	3		MON	2.0%	.80*	TTL	2	10	0	7	29nΔ			40m	1.0 Δ	-55	125	4	G03173	TO116
10	USS5402J	3		MON	2.0%	.80*	TTL	2	10	0	7	29nΔ			40m	1.0 Δ	-55	125	4	G03173	TO88
11	HEPC3002P-RT	3		MON	2.4%	.40*†	TTL	2	10	0.0	5.0	13n			48m				4		TO116
12	LU314K	3		MON	2.7	0.0	DTL	7	17		5.5	30n%			18m		15	55	1	G0328	CN17
13	LU315K	3		MON	2.7	0.0	DTL	3	17		5.5	30n%			18m		15	55	2	G0328a	CN17
14	LU316K	3		MON	2.7	0.0	DTL	2	17		5.5	30n%			18m		15	55	2	G0328b	CN17
15	SU314G	3		MON	2.7	0.0	DTL	7	17		5.5	30n%			18m	1.2 Δ	-20	85	1	G0328	TO91
16	SU314K	3		MON	2.7	0.0	DTL	7	17		5.5	30n%			18m	1.2 Δ	-20	85	1	G0328	CN17
17	SU315G	3		MON	2.7	0.0	DTL	3	17		5.5	30n%			18m	1.2 Δ	-20	85	2	G0328a	TO91
18	SU315K	3		MON	2.7	0.0	DTL	3	17		5.5	30n%			18m	1.2 Δ	-20	85	2	G0328a	CN17
19	SU316G	3		MON	2.7	0.0	DTL	2	17		5.5	30n%			18m	1.2 Δ	-20	85	2	G0328b	TO91
20	SU316K	3		MON	2.7	0.0	DTL	2	17		5.5	30n%			18m	1.2 Δ	-20	85	2	G0328b	CN17
21	LP02A	3		MON	-9%	-3.5*	DDL	3		30	.30				15m		-55	125	1	G03219	TO77
22	LP03A	3		MON	-9%	-3.5*	DDL	3		30	.30				15m		-55	125	1	G03220	TO77
23	LP05A	3		MON	-9%	-3.5*	DDL	3		30	.30				15m		-55	125	1	G03219	TO77
24	LP06A	3		MON	-9%	-3.5*	DDL	3		30	.30				15m		-55	125	1	G03220	TO77
25#	MP104	3		MON	-15	-2	MOS	6		24	0	500n			12m	1.0	-55	125	2	G03194	TO100
26	MC2501L	3		MOS	9.99%	.010*†		2	10	0.0	10		200n	150n	1.0u%		-55	125	4	G03252	M157a
27	MC2502L	3		MOS	9.99%	.010*†		4	10	0.0	10	125nΔ	300n	200n	1.0u%		-55	125	2	G03253	M157a
28	MC14001L	3		MOS	9.99%	.01†*		2	50	0.0	10	40n†			1.0u%		-55	125	4	G03212	M157a
29	MC14002L	3		MOS	9.99%	.01†*		4	50	0.0	10	50n†			1.0u%		-55	125	2	G03253	M157a
30	TA5455	3		MOS	9.99	.01†	TTL	2	50	15	15	50n%				4.0 Δ	-55	125	4	G03212	M135
31	TA5456	3		MOS	9.99	.01†	TTL	4	50	15	15	50n%				4.0 Δ	-55	125	2	G03212	M135
32	CD4001E	3		MOS	10	0.0†	TTL	2	50	0.0	10	200n			10u	6.7	-40	80	4	G043g	Δ001ab
33	CD4002E	3		MOS	10	0.0†	TTL	4	50	0.0	10	200n			10u	6.7	-40	80	2	G043aw	Δ001ab
34	CD4001	3		MOS	10	.01†*	TTL	2	50	0.0	10	80n			1.0u%	4.5	-55	125		G03212a	FP44a
35	CD4001D	3		MOS	10	.01†*	TTL	2	50	0.0	10	80n			1.0u%	4.5	-55	125		G03212a	M135
36	CD4002	3		MOS	10	.01†*	TTL	4	50	0.0	10	80n			1.0u%	4.5	-55	125		G03213a	FP44a
37	CD4002D	3		MOS	10	.01†*	TTL	4	50	0.0	10	80n			1.0u%	4.5	-55	125		G03213a	M105
38	SCL4001D	3		MOS	10	.01†*	TTL	2	50†	0.0	10	80n	250n	250n	1.0u%	6.7	-55	125	4	G0366c	TO116
39	SCL4001F	3		MOS	10	.01†*	TTL	2	50†	0.0	10	80n	250n	250n	1.0u%	6.7	-55	125	4	G0366c	TO86
40	SCL4002D	3		MOS	10	.01†*	TTL	4	50†	0.0	10	80n	250n	250n	1.0u%	6.7	-55	125	2	G043aw	TO116
41	SCL4002F	3		MOS	10	.01†*	TTL	4	50†	0.0	10	80n	250n	250n	1.0u%	6.7	-55	125	2	G043aw	TO86
42#	GDH116	3		MOS	-10%	-2.0*		3		-27	0.0	330nΔ					-55	85	2	G03131b	TO74
43#	GDH126	3		MOS	-10%	-2.0*		2		-27	-13	330nΔ					-55	85	4	G03131c	FP47d
44	MEM1013	3		MOS	-10%	-2*		2		30	.3	200n			52m	1.0 *	-55	85	4	G0366a	FP47
45	RC401	3		TFM			TTL	4	4	0.0	10				3.5m	300m	-55	125	1	G0367	CN19
46	B656	3	1.0k	PCB	-6.0	0.0	DTL	3	4	12	6.0				200m	2.0	-15	60	2	G0323	CB22
47	G303	3	25k	PCB	-6.0	0.0	RTL	4	4	12	6.0	800n	600n	1.4u	415m		-55	71	3		CB16
48	GA303	3	25k	PCB	-6.0	0.0	RTL	4	4	12	6.0	800n	600n	1.4u	415m		-55	71	3		CB16
49	DTND14	3	25k	3DM	0.0	6.0	DTL	50	4	12	12	200n	2.0u	500n	200m	1.0	0	65	7		
50	N26L	3	50k	PCB	-10	0.0	RTL			12	12				400m		0	50	6	G0318	CB19
51	N35L	3	50k	PCB	-10	0.0	RTL			12	12				325m		0	50	5	G0319	CB19
52	N44L	3	50k	PCB	-10	0.0	RTL			12	12				275m		0	50	4	G0320	CB19
53	NOR4	3	50k	3DM	2.0	.20	DTL	4	6	0.0	3.0	5.0u	250n	250n	1.0u	400m	-20	85	1	G0363	M12
54	G322	3	100k	PCB	-6.0	0.0	DTL	4	4	12	6.0	1.4u	600n	1.4u	850m		-55	71	6		CB16
55	GA308	3	100k	PCB	-6.0	0.0	DTL	4	4	12	6.0	1.4u	600n	1.4u	425m		-55	71	3		CB16
56	GA322	3	100k	PCB	-6.0	0.0	DTL	4	4	12	6.0	1.4u	600n	1.4u	850m		-55	71	6		CB16
57	EM5003	3	100k	3DM	0.0	-6.0	DTL	4†	4	6.0	6.0	170n	270n	5.0u	74m	500m	-55	70	2	G03115	M62a
58	EM5004	3	100k	3DM	0.0	-6.0	DTL	2	4	6.0	6.0	170n	270n	5.0u	74m	500m	-55	70	2	G03115a	M62c
59	EM5005	3	100k	3DM	0.0	-6.0	DTL	2Δ	7	6.0	6.0	170n	270n	5.0u	74m		-55	70	2	G03115b	M62c
60	EM5071	3	100k	3DM	0.0	-6.0	DTL	2	11	6.0	6.0	100n	340n	750n	65m		-55	70	2	G03116	M62c
61	G308	3	100k	3DM	-6.0	0.0	DTL	4	4	12	6.0	1.4u	600n	1.4u	425m		-55	71	3		CB16
62	NO11-1	3	100k	3DM	-12	0.0	DTL	4Δ	6	12	12	100n	200n	500n	225m	2.0	-35	65	1	G0317a	M15
63	NO11-2	3	100k	3DM	-12	0.0	DTL	7Δ	6	12	12	100n	200n	500n	225m	2.0	-35	65	1	G0317b	M15
64	NO12-1	3	100k	3DM	-12	0.0	DTL	3Δ	6	12	12	100n	200n	500n	450m	2.0	-35	65	2	G0317c	M15
65	T638A	3	250k		-3.0	-11		10	2	12	12				48m		-54	65			
66	CT437-3	3	250k	PCB	-3.0	-11	DTL	4		12	12	200n	1.0u		224m		-54	71	3		CB16
67	CT645-2	3	250k	PCB	-3.0	-11	DTL	7		12	12	200n	1.0u		156m		-54	71	2		CB16
68	DTN313	3	250k	3DM	0.0	6.0	DTL	6Δ	4	12	12	250n	150n	1.3u	170m	1.0	-25	125	1	G0388a	M2
69	DTN213	3	250k	3DM	0.0	-6.0	RTL	5	4	12	12	150n	250n	1.5u	180m	1.0	-54	71	1	G0388	M2
70	EM2504	3	250k	3DM	0.0	-6.0	DTL	3	10	12	6.0	300n	400n	1.0u	380m	500m	-55	71	2	G03106	M62b
71	EM2504A	3	250k	3DM	0.0	-6.0	DTL	5	10	12	6.0	300n	400n	1.0u	194m	500m	-55	71	2	G03106a	M62b
72	T437	3	250k	3DM	-3.0	-11	DTL	4		12	12	200n	1.0u		78m		-54	71	2	G0398a	M17
73	T645	3	250k	3DM	-3.0	-11	DTL	7		12	12	200n	1.0u		78m		-54	71	2	G0399	M17
74	MEM1002	3	500k	MOS	-10%	-2.0*	TTL	3		30	3.0	100n	230n	230n	36m	1.0 *	-55	85	2	G03104	CN58
75	NOR2M	3	500k	3DM	0.0	-6.0	DTL	3†	6	15	6.0	150n	200n	200n	450m	1.5	0	50	3	G0362	
76#	MA01	3	800k	MON	16	2.0		4	2	20	0.0				8.0mΔ	1.0	-55	125			
77	SN348A	3	1.0M	MON	6.7	0.0	DTL	2		0	12				130m		-65	150	3	G03105	ZB6
78	SCL5101	3	1.0M	MOS	7.0%	3.0*	TTL	2	10	0.0	10	50n			100n%	4.0 Δ	-55	125	4	G03238	TO86
79	SCL5101D	3	1.0M	MOS	7.0%	3.0*	TTL	2	10	0.0	10	50n			100n%	4.0 Δ	-55	125	4	G03238	M170
80	SCL5103	3	1.0M	MOS	7.0%	3.0*	TTL	3	10	0.0	10	50n			100n%	4.0 Δ	-55	125	2	G03239	TO86
81	SCL5103D	3	1.0M	MOS	7.0%	3.0*	TTL	3	10	0.0	10	50n			100n%	4.0 Δ	-55	125	2	G03239	M170
82	SCL5105	3	1.0M	MOS	7.0%	3.0*	TTL	4	10	0.0	10	50n			100n%	4.0 Δ	-55	125	2	G03240	TO86
83	SCL5105D	3	1.0M	MOS	7.0%	3.0*	TTL	4	10	0.0	10	50n			100n%	4.0 Δ	-55	125	2	G03240	M170
84	UC501	3	1.0M	PCB	0.0	6.0	DTL	4	4	12	12	100n	200n	130n	401m		-55	125	3	G0393	CB16
85	UC509	3	1.0M	PCB	0.0	6.0	DTL	4	4	12	12	100n	100p	100p	817m		-55	125	3	G0394	CB16
86	NOR2Z	3	1.0M	PCB	0.0	-6.0	DTL	3†	6	15	6.0	150n	200n	200n	1.2	1.5	0	50	8	G0362a	CB14
87	CT308-3	3	1.0M	PCB	-3.0	-11	DTL	4		12	12	100n	1.0u		306m		-55	71	3		CB16
88	U601	3	1.0M	3DM	0.0	6.0	DTL	15	4	12	12	100n	200n	130n	339m		-55	125	2	G0395	M60
89	UB601	3	1.0M	3DM	0.0	6.0	DTL	15	4	12	12	100n	200n	130n	339m		-55	125	2	G0395	M61
90	T308	3	1.0M	3DM	-3.0	-11	DTL	4		12	12	100n	200n		102m		-55	71	1	G0398	M17
91	T315	3	1.0M	3DM	-3.0	-11	DTL	2		12	12	500n			168m		-54	71	1	G0577	M17
92	T805	3	1.0M	3DM	-3.0	-11	DTL	2		12	12	500n	500n		335m		-45	65	1		
93	LCE202	3	2.0M	MOH	-6.0	0.0†		5		12	6	20n					-10	55	1		CN27
94	LCE210	3	2.0M	MOH	-6.0	0.0†		5		12	6	20n					-10	55	1		CN27
95	PL4G10AC	3	2.0M	MOS	-9.0%	-3.0*		2†		25	0.0	125nΔ			300m	1.0 *	0	70	8	G03255	M149
96	PL4G10C	3	2.0M	MOS	-9.0%	-3.0*		2†		25	0.0	300nΔ			300m	1.0 *	0	70	8	G03255	FP64
97	PL4G11AC	3	2.0M	MOS	-9.0%	-3.0*		5†		25	0.0	125nΔ			300m	1.0 *	0	70	4	G03256	M149
98	PL4G11ACF	3	2.0M	MOS	-9%	-3*		5†		25	0	125nΔ			300m	1.0	0	70	4		FP48
99	PL4G11ACP	3	2.0M	MOS	-9%	-3*		5†		25	0	125nΔ			300m	1.0	0	70	4		M149
100	PL4G11C	3	2.0M	MOS	-9.0%	-3.0*		5†		25	0.0	300nΔ			300m	1.0 *	0	70	4	G03256	FP64
101	PL4G11CF	3	2.0M	MOS	-9%	-3*		5†		25	0	300nΔ			300m	1.0	0	70	4		FP48
102	PL4G11CP	3	2.0M	MOS	-9%	-3*		5†		25	0	300nΔ			300m	1.0	0	70	4		M149
103	PL4G12AC	3	2.0M	MOS	-9.0%	-3.0*		9		25	0.0	125nΔ			300m	1.0 *	0	70	2	G0254c	M149
104	PL4G12ACF	3	2.0M	MOS	-9%	-3*		9		25	0	125nΔ			300m	1.0	0	70	2		FP48
105	PL4G12ACP	3	2.0M	MOS	-9%	-3*		9		25	0	125nΔ			300m	1.0	0	70	2		M149
106	PL4G12C	3	2.0M	MOS	-9.0%	-3.0*		9		25	0.0	300n			300m	1.0 *	0	70	2	G0254c	FP64
107	PL4G12CF	3	2.0M	MOS	-9%	-3*		9		25	0	300nΔ			300m	1.0	0	70	2		FP48
108	PL4G12CP	3	2.0M	MOS	-9%	-3*		9		25	0	300nΔ			300m	1.0	0	70	2		M149
109	EM2604	3	2.0M	3DM	0.0	-6.0	DTL	3	5	12	6	18n	30n	80n	310m	500m	-55	71	2	G03106	M62a

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC			FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (s)	MAX.		MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP.		CKT PER MOD	DRAWINGS	
					LEVEL 4 '1' (V)	LEVEL 5 '0' (V)	TYPE	IN	OUT	NEG. (V)	POS. (V)		RISE TIME tr (s)	FALL TIME tf (s)			LOW °C	HI °C		LOGIC DWG. No	OUTLINE DWG. No Δ=MO
1	EM2604A	3	2.0M	3DM	0.0	-6.0	DTL	5	5	12	6	18n	30n	80n	310m	500m	-55	71	1	G03106a	M62a
2	EM3004	3	2.0M	3DM	0.0	-6.0	DTL	3	5	6	12	12n	30n	60n	112m	500m	-55	125	2	G03172	M62a
3	EM3004C	3	2.0M	3DM	0.0	-6.0	DTL	5	5	6	12	12n	30n	60n	135m	500m	-55	125	2	G03172a	M62a
4	NO21-1	3	2.0M	3DM	12	0.0	DTL	4Δ	5	12	12	10n	50n	20n	75m	2.0	-35	125	1	G03102a	M16
5	NO21-2	3	2.0M	3DM	12	0.0	DTL	7Δ	5	12	12	10n	50n	20n	75m	2.0	-35	125	1	G03102	M16
6	NO22-1	3	2.0M	3DM	12	0.0	DTL	2	5	12	12	10n	50n	20n	150m	2.0	-35	125	2	G03103	M16
7	TG31	3	5.0M	PCB	0.0	3.0	DTL	2	30	0	4	20n	140n	100n	400m	2.0	-40	70	16		CB10a
8	9020	3	5.0M	PCB	3.0	0.0	TTL	16	6	0	5	20n	5.0n	5.0n	360m	900m	0	70	4	G03197	CB54
9	9045	3	5.0M	PCB	3.0	0.0	TTL	4	6	0.0	5.0	17n	5.0n	5.0n	275m	900m	0	70	8	G03198	CB54
10	DTN413	3	5.0M	3DM	0.0	-6.0	DTL	5	4	12	12	30n	50n	150n	202m	1.0	-25	60	1	G0388a	M2
11#	502-02	3	10M	MON	.20	3.5	DTL	1Δ	6	10	12				200m	1.0	10	55	2	G03133	CN2
12#	502-03	3	10M	MON	.20	3.5	DTL	1Δ	6	10	12				200m	1.0	10	55	2	G03133	CN2
13#	502-05	3	10M	MON	.20	3.5	DTL	1Δ	6	10	12				200m	1.0	10	55	2	G03133	CN2
14#	502-06	3	10M	MON	.20	3.5	DTL	1Δ	6	10	12				200m	1.0	10	55	2	G03133	CN2
15	2NB1007	3	10M	MON	.81	.21	RTL	4	16	0.0	4.0	12n	12n	12n	27m	355m	-55	125	1	G0380	CN19
16	2NB1014	3	10M	MON	.81	.25	RTL	2	16	0.0	4.0	12n	12n	12n	54m	355m	-55	125	2	G0359	CN19
17	3NB1015	3	10M	MON	.81	.25	RTL	3	16	0.0	4.0	14n	14n	14n	24m	355m	-55	125	2	G0382	CN29
18	2NB2007	3	10M	MON	.84	.25	RTL	4	16	0.0	4.0	12n	12n	12n	27m	293m	0	100	1	G0380	CN19
19	2NB2014	3	10M	MON	.84	.25	RTL	2	16	0.0	4.0	12n	12n	12n	54m	293m	0	100	2	G0359	CN19
20	2NB4007	3	10M	MON	.84	.25	RTL	4	16	0.0	4.0	12n	12n	12n	27m	293m	0	75	1	G0380	CN19
21	2NB4014	3	10M	MON	.84	.25	RTL	2	16	0.0	4.0	12n	12n	12n	54m	293m	0	75	2	G0359	CN19
22	3NB2015	3	10M	MON	.84	.25	RTL	3	16	0.0	4.0	14n	14n	14n	24m	293m	0	100	2	G0392	CN29
23	3NB4015	3	10M	MON	.84	.25	RTL	3	16	0.0	4.0	14n	14n	14n	24m	293m	0	75	2	G0392	CN29
24	2NB3007	3	10M	MON	.91	.25	RTL	4	16	0.0	3.6	12n	12n	14n	27m	250m	15	65	1	G0380	CN19
25	2NB3014	3	10M	MON	.91	.25	RTL	2	16	0.0	3.6	12n	12n	12n	54m	250m	15	65	2	G0381	CN19
26	3NB3015	3	10M	MON	.91	.25	RTL	3	16	0.0	3.6	14n	14n	14n	24m	250m	15	65	2	G0392	CN29
27	UC701	3	10M	PCB	0.0	6.0	DTL	4	3	12	12	50n	20n	20n	924m		-55	125	3	G0396	CB16
28	UC706	3	10M	PCB	0.0	6.0	DTL		3	12	12	30n			1.7		-55	125	2	G0315	CB16
29	UC707	3	10M	PCB	0.0	6.0	DTL		3	12	12	30n			1.3		-55	125	2	G038	CB16
30	IT27	3	10M	PCB	4.0	0.0	DTL	3†	14	0	8	30n	5.0n	5.0n	2.0	1.5	5	71	12	G03131a	CB37a
31	U811	3	10M	3DM	0.0	6.0	DTL	3	3	12	12	10n	10n	10n	434m		-55	125	2	G0397	M60
32	NC10	3	15M	MOH	5.0	.30	DTL	5Δ	5	3	12	8.0n	25n	12n	170m		-55	125	1	G0318	CN43
33	GG957	3	20M	PCB	2.0%	.80*	TTL	2	10	0	5	13n			225m†	400m	0	70	12		CB0
34	LU314A	3	35M		3.8%	.60*		7	16	0.0	6.0	20n			22m†	1.2	-10	55	1	G0328c	M114c
35	LU317A	3	35M		3.8%	.60*		4	16	0	6	20n			22m†	1.2	-10	55	2		M114c
36	LU370A	3	35M		3.8%	.60*		3	16	0	6	20n			22m†	1.2	-10	55	3		M114c
37	LU380A	3	35M		3.8%	.60*		2	16	0	6	20n			22m†	1.2	-10	55	4		M114c
38	10111E	3	120M		-.96	-1.8	ECL	3	90	5.2	0.0	2.5n	3.0n	3.0n	150m	400m	-30	85			M153a
39	10102E	3	150M		-.96	-1.8	ECL	2	90	5.2	0.0	2.0n	3.0n	3.0n	100m	400m	-30	85			M153a
40	10106E	3	150M		-.96	-1.8	ECL	4†	90	5.2	0.0	2.0n	3.0n	3.0n	75m	400m	-30	85			M153a
41	TMC400-01	3Δ	10M	TFH	6.0	0.0	RCT	4	6	3	6	10n	20n	20n	50m	1.0	-55	125	1	G0324	FP10
42#	SFC761E	3,1		MON			DTL	5Δ	10	0	15	120n				5.0	0	70	2		TO116
43#	T103D2-16	3,1		MON	1.7%	.90*	TTL	3	10	0.0	5.0	12nΔ			33m†	400m	-55	125	3	G03250b	M200
44#	T105D2-16	3,1		MON	1.7%	.90*	TTL	6Δ	10	0.0	5.0	15nΔ			22m†	400m	-55	125	2	G03248	M200
45#	T108D2-16	3,1		MON	1.7%	.90*	TTL	11Δ	10	0.0	5.0	15nΔ			11m†	400m	-55	125	1	G03249	M200
46#	T109D2-16	3,1		MON	1.7%	.90*	TTL	4	10	0.0	5.0	15nΔ			22m†	400m	-55	125	2	G03250	M200
47#	T115D2-16	3,1		MON	1.7%	.90*	TTL	4	10	0.0	5.0	14nΔ			22m†	400m	-55	125	2	G03248a	M200
48	TNG3241F	3,1		MON	1.7%	1.1*	TTL	8	15	0	7				22m†	1.0 Δ	-55	125	1	G03189a	FP21c
49	TNG3241P	3,1		MON	1.7%	1.1*	TTL	8	15	0	7				22m†	1.0 Δ	-55	125	1	G03189a	TO116
50	TNG3242F	3,1		MON	1.7%	1.1*	TTL	8	15	0	7				22m†	1.0 Δ	0	75	1	G03189a	FP21c
51	TNG3242P	3,1		MON	1.7%	1.1*	TTL	8	15	0	7				22m†	1.0 Δ	0	75	1	G03189a	TO116
52	TNG3243F	3,1		MON	1.7%	1.1*	TTL	8	7	0	7				22m†	1.0 Δ	-55	125	1	G03189a	FP21c
53	TNG3243P	3,1		MON	1.7%	1.1*	TTL	8	7	0	7				22m†	1.0 Δ	-55	125	1	G03189a	TO116
54	TNG3244F	3,1		MON	1.7%	1.1*	TTL	8	7	0	7				22m†	1.0 Δ	0	75	1	G03189a	FP21c
55	TNG3244P	3,1		MON	1.7%	1.1*	TTL	8	7	0	7				22m†	1.0 Δ	0	75	1	G03189a	TO116
56	TNG4241F	3,1		MON	1.7%	1.1*	TTL	3†	15	0	7				44m†	1.0 Δ	-55	125	2	G03189	FP21c
57	TNG4241P	3,1		MON	1.7%	1.1*	TTL	3†	15	0	7				44m†	1.0 Δ	-55	125	2	G03189	TO116
58	TNG4242F	3,1		MON	1.7%	1.1*	TTL	3†	15	0	7				44m†	1.0 Δ	0	75	2	G03189	FP21c
59	TNG4242P	3,1		MON	1.7%	1.1*	TTL	3†	15	0	7				44m†	1.0 Δ	0	75	2	G03189	TO116
60	TNG4243F	3,1		MON	1.7%	1.1*	TTL	3†	7	0	7				44m†	1.0 Δ	-55	125	2	G03189	FP21c
61	TNG4243P	3,1		MON	1.7%	1.1*	TTL	3†	7	0	7				44m†	1.0 Δ	-55	125	2	G03189	TO116
62	TNG4244F	3,1		MON	1.7%	1.1*	TTL	3†	7	0	7				44m†	1.0 Δ	0	75	2	G03189	FP21c
63	TNG4244P	3,1		MON	1.7%	1.1*	TTL	3†	7	0	7				44m†	1.0 Δ	0	75	2	G03189	TO116
64#	T103B1-16	3,1		MON	1.8%	.85*	TTL	3	10	0.0	5.0	15nΔ			33m†	400m	0	75	3	G03250b	M200
65#	T103D1-16	3,1		MON	1.8%	.85*	TTL	3	10	0.0	5.0	15nΔ			33m†	400m	0	75	3	G03250b	M200
66#	T108B1-16	3,1		MON	1.8%	.85*	TTL	11Δ	10	0.0	5.0	18nΔ			11m†	400m	0	75	1	G03249	M200
67#	T108D1-16	3,1		MON	1.8%	.85*	TTL	11Δ	10	0.0	5.0	18nΔ			11m†	400m	0	75	1	G03249	M200
68#	T109B1-16	3,1		MON	1.8%	.85*	TTL	4	10	0.0	5.0	17nΔ			22m†	400m	0	75	2	G03250	M200
69#	T109D1-16	3,1		MON	1.8%	.85*	TTL	4	10	0.0	5.0	17nΔ			22m†	400m	0	75	2	G03250	M200
70#	T115B1-16	3,1		MON	1.8%	.85*	TTL	4	10	0.0	5.0	15nΔ			22m†	400m	0	75	2	G03248a	M200
71#	T115D1-16	3,1		MON	1.8%	.85*	TTL	4	10	0.0	5.0	15nΔ			22m†	400m	0	75	2	G03248a	M200
72	SN54L51R	3,1		MON	2.0%	.70*	TTL	6†	10	0.0	8.0	43n			1.5mΔ	1.0 Δ	-55	125	2	G03175b	TO84
73	SN54L54R	3,1		MON	2.0%	.70*	TTL	12	10	0	8	43n%			2.5m†	1.0 Δ	-55	125	1	G03175d	TO84
74	SN54L55R	3,1		MON	2.0%	.70*	TTL	8	10	0.0	8.0	43n			1.5m	1.0 Δ	-55	125	1	G03175c	TO84
75	SN74L51R	3,1		MON	2.0%	.70*	TTL	6†	10	0.0	8.0	43n			1.5mΔ	1.0 Δ	0	70	2	G03175b	TO84
76	SN74L54R	3,1		MON	2.0%	.70*	TTL	12	10	0	8	43n%			2.5m†	1.0 Δ	0	70	1	G03175d	TO84
77	SN74L55R	3,1		MON	2.0%	.70*	TTL	8	10	0	8	43n%			1.5m†	1.0 Δ	0	70	1	G03175c	TO84
78	SP440A	3,1		MON	2.0%	.70*	TTL	4	7	0	6				36m	1.5	15	55	2	G03216	TO116
79	SP840A	3,1		MON	2.0%	.70*	TTL	4		0	6				60m	2.0	15	55	2	G03218	TO116
80	ST440A	3,1		MON	2.0%	.70*	TTL	4	7	0	6				36m	1.5	0	70	2	G03216	TO116
81	ST840A	3,1		MON	2.0%	.70*	TTL	4		0	6				60m	2.0	0	70	2	G03218	TO116
82#	5450-1-6A	3,1		MON	2.0%	.80*	TTL	6†	10	0.0	5.0	20n%			20m†		-55	125	2	G03174	M157
83#	5451-1-6A	3,1		MON	2.0%	.80*	TTL	4	10	0.0	5.0	20n%			20m†		-55	125	2	G03174a	M157
84#	5453-1-6A	3,1		MON	2.0%	.80*	TTL	10Δ	10	0.0	5.0	22nΔ			10m†	1.0 Δ	-55	125	1	G03175	M157
85#	5453-9-6A	3,1		MON	2.0%	.80*	TTL	10Δ	10	0.0	5.0	18nΔ			22m†	1.0 Δ	0	70	1	G03175a	M157
86#	5454-1-6A	3,1		MON	2.0%	.80*	TTL	8	10	0.0	5.0	22nΔ			10m†	1.0 Δ	-55	125	1	G03175a	M157
87#	5454-9-6A	3,1		MON	2.0%	.80*	TTL	8	10	0.0	5.0	18nΔ			22m†	1.0 Δ	0	70	1	G03175	M157
88#	7450-9-6A	3,1		MON	2.0%	.80*	TTL	6†	10	0.0	5.0	20n%			20m†		0	70	2	G03174	M157
89#	7451-9-6A	3,1		MON	2.0%	.80*	TTL	4	10	0.0	5.0	20n%			20m†		0	70	2	G03174a	M157
90#	7453-9-6A	3,1		MON	2.0%	.80*	TTL	6Δ	10	0.0	5.0	22nΔ			10m†	1.0 Δ	0	70	1	G03175	M157
91#	7454-9-6A	3,1		MON	2.0%	.80*	TTL	4	10	0.0	5.0	22nΔ			10m†	1.0 Δ	0	70	1	G03175a	M157
92	NC450N	3,1		MON	2.0%	.80*	TTL	4	10	0.0	7.0	13n%			10m†	1.0	0	70	2	G03174	M126
93	NC450PM	3,1		MON	2.0%	.80*	TTL	5Δ	10	0.0	7.0	22n%			14m†	1.0	0	70	2	G03174	TO84
94	NC453N	3,1		MON	2.0%	.80*	TTL	9Δ	10	0.0	7.0	22n%			14m†	1.0	0	70	2	G03175	M75a
95	PD7450	3,1		MON	2.0%	.80*	TTL	6†	10	0.0	5.0	29nΔ			14m†	1.0	0	75	2	G03174	M105v
96	PD7451	3,1		MON	2.0%	.80*	TTL	4	10	0.0	5.0	29nΔ			40m†	1.0 Δ	0	75	2	G03245	M105v
97	PD7453	3,1		MON	2.0%	.80*	TTL	9Δ	10	0.0	5.0	29nΔ			14m†	1.0	0	75	1	G03246	M105v
98	PD7454	3,1		MON	2.0%	.80*	TTL	8	10	0.0	5.0	29nΔ			14mΔ	1.0	0	75	1	G03247	M105v
99	SN54H50F	3,1		MON	2.0%	.80*	TTL	6†	10	0.0	7.0	10nΔ				1.0 Δ	-55	125	2	G03214	TO84
100	SN54H51F	3,1		MON	2.0%	.80*	TTL	4	10	0	7	10nΔ				1.0 Δ	-55	125	2	G03214a	TO84
101	SN54H53F	3,1		MON	2.0%	.80*	TTL	11†	10	0.0	7.0	10nΔ				1.0 Δ	-55	125	1	G03215	TO84
102	SN54H54F	3,1		MON	2.0%	.80*	TTL	9	10	0	7	10nΔ				1.0 Δ	-55	125	1	G03215a	TO84
103	SN54H55F	3,1		MON	2.0%	.80*	TTL	10†	10	0.0	7.0	10nΔ				1.0 Δ	-55	125	1	G03214b	TO84
104	SN74H50F	3,1		MON	2.0%	.80*	TTL	6†	10	0.0	7.0	10nΔ				1.0 Δ	0	70	2	G03214	TO84
105	SN74H51F	3,1		MON	2.0%	.80*	TTL	4	10	0	7	10nΔ				1.0 Δ	0	70	2	G03214a	TO84
106	SN74H53F	3,1		MON	2.0%	.80*	TTL	11†	10	0.0	7.0	10nΔ				1.0 Δ	0	70	1	G03215	TO84
107	SN74H54F	3,1		MON	2.0%	.80*	TTL	9	10	0	7	10nΔ				1.0 Δ	0	70	1	G03215a	TO84
108	SN74H55F	3,1		MON	2.0%	.80*	TTL	10†	10	0.0	7.0	10nΔ				1.0 Δ	0	70	1	G03214b	TO84
109	SN5450	3,1		MON	2.0%	.80*	TTL	5Δ	10	0	7	22n%			60m†	1.0	-55	125	2	G03174	TO84
110	SN5451	3,1		MON	2.0%	.80*	TTL	4	10	0	7	22n%			60m†	1.0	-55	125	2	G03174a	TO84

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	SN5453	3,1		MON	2.0%	.80*	TTL	9Δ	10	0.0	7.0	22n%			14mΔ	1.0	-55	125	1	G03175	TO84
2	SN7450	3,1		MON	2.0%	.80*	TTL	5Δ	10	0.0	7.0	22n%			14mΔ	1.0	0	70	2	G03174	TO84
3	TG7450E	3,1		MON	2.0%	.80*	TTL	4	10	0.0	7.0	13n%			14mΔ	1.0	0	70	2	G03174	TO116
4	TG7451E	3,1		MON	2.0%	.80*	TTL	4	10	0.0	7.0	22n%			14mΔ	1.0	0	70	2	G03174a	TO116
5	TG7453E	3,1		MON	2.0%	.80*	TTL	9Δ	10	0.0	7.0	22n%			14mΔ	1.0	0	70	1	G03175	TO116
6	TG7454E	3,1		MON	2.0%	.80*	TTL	8	10	0.0	7.0	22n%			14mΔ	1.0	0	70	1	G03175a	TO116
7	US5455A	3,1		MON	2.0%	.80*	TTL	10Δ	10	0.0	7.0	10nΔ				1.0 Δ	-55	125	1	G03214b	M105b
8	US5455J	3,1		MON	2.0%	.80*	TTL	10Δ	10	0.0	7.0	10nΔ				1.0 Δ	-55	125	1	G03214b	TO88
9	US7455A	3,1		MON	2.0%	.80*	TTL	10Δ	10	0.0	7.0	10nΔ				1.0 Δ	0	70	1	G03214b	M105b
10	US7455J	3,1		MON	2.0%	.80*	TTL	10Δ	10	0.0	7.0	10nΔ				1.0 Δ	0	70	1	G03214b	TO88
11	USN7450A	3,1		MON	2.0%	.80*	TTL	5†	10	0.0	7.0	29nΔ			20m	1.0 Δ	0	70	2	G03174	TO116
12	USN7450J	3,1		MON	2.0%	.80*	TTL	5†	10	0.0	7.0	29nΔ			20m	1.0 Δ	0	70	2	G03174	TO88
13	USN7451A	3,1		MON	2.0%	.80*	TTL	4	10	0	7	29nΔ			20m	1.0 Δ	0	70	2	G03174a	TO116
14	USN7451J	3,1		MON	2.0%	.80*	TTL	4	10	0	7	29nΔ			20m	1.0 Δ	0	70	2	G03174a	TO88
15	USN7453A	3,1		MON	2.0%	.80*	TTL	9Δ	10	0	7	29nΔ			10m	1.0 Δ	0	70	1	G03175	TO116
16	USN7453J	3,1		MON	2.0%	.80*	TTL	9Δ	10	0	7	29nΔ			10m	1.0 Δ	0	70	1	G03175	TO88
17	USN7454A	3,1		MON	2.0%	.80*	TTL	8	10	0	7	29nΔ			10m	1.0 Δ	0	70	1	G03175a	TO116
18	USN7454J	3,1		MON	2.0%	.80*	TTL	8	10	0	7	29nΔ			10m	1.0 Δ	0	70	1	G03175a	TO88
19	USS5450A	3,1		MON	2.0%	.80*	TTL	5†	10	0.0	7.0	29nΔ			20m	1.0 Δ	-55	125	2	G03174	TO116
20	USS5450J	3,1		MON	2.0%	.80*	TTL	5†	10	0.0	7.0	29nΔ			20m	1.0 Δ	-55	125	2	G03174	TO88
21	USS5451A	3,1		MON	2.0%	.80*	TTL	4	10	0	7	29nΔ			20m	1.0 Δ	-55	125	2	G03174a	TO116
22	USS5451J	3,1		MON	2.0%	.80*	TTL	4	10	0	7	29nΔ			20m	1.0 Δ	-55	125	2	G03174a	TO88
23	USS5453A	3,1		MON	2.0%	.80*	TTL	9Δ	10	0	7	29nΔ			10m	1.0 Δ	-55	125	1	G03175	TO116
24	USS5453J	3,1		MON	2.0%	.80*	TTL	9Δ	10	0	7	29nΔ			10m	1.0 Δ	-55	125	1	G03175	TO88
25	USS5454A	3,1		MON	2.0%	.80*	TTL	8	10	0	7	29nΔ			10m	1.0 Δ	-55	125	1	G03175a	TO116
26	USS5454J	3,1		MON	2.0%	.80*	TTL	8	10	0	7	29nΔ			10m	1.0 Δ	-55	125	1	G03175a	TO88
27	WC7450D	3,1		MON	2.0%	.80*	TTL	4	10	0.0	7.0	13n%			14mΔ	1.0	0	75	2	G03174	M126b
28	WC7451D	3,1		MON	2.0%	.80*	TTL	4	10	0.0	7.0	22n%			14mΔ	1.0	0	75	2	G03174a	M126b
29	WC7453D	3,1		MON	2.0%	.80*	TTL	9Δ	10	0.0	7.0	22n%			14mΔ	1.0	0	75	2	G03175	M126b
30	HDT54H51R	3,1		MON	2.4%	.40*	TTL	4	10	0.0	8.0	10n			120m	1.2 Δ	-55	125	2	G03214a	TO86
31	HDT54H54R	3,1		MON	2.4%	.40*	TTL	9	10	0.0	8.0	10n			70m	1.2 Δ	-55	125	1	G03215a	TO86
32	RDT54H51R	3,1		MON	2.4%	.40*	TTL	4	10	0.0	8.0	10n			120m	1.2 Δ	-55	125	2	G03214a	TO86
33	RDT54H54R	3,1		MON	2.4%	.40*	TTL	9	10	0.0	8.0	10n			70m	1.2 Δ	-55	125	1	G03215a	TO86
34	SN54966	3,1		MON	2.4	.40	TTL	4	10	0	5	13n				400m	-55	125	2	G03177	ZB6
35	SN74966	3,1		MON	2.4	.40	TTL	4	10	0	5	13n				400m	0	70	2	G03177	ZB6
36	NE8840A	3,1		MON	2.8%	.40*†	TTL	5†		0.0	6.0	25nΔ		50n	63m	600m	0	75	2	G03218	TO116
37	NE8840J	3,1		MON	2.8%	.40*†	TTL	5†		0.0	6.0	25nΔ		50n	63m	600m	0	75	2	G03218	TO88
38	SE8840A	3,1		MON	2.8%	.40*†	TTL	5†		0.0	6.0	25nΔ		50n	63m	600m	-55	125	2	G03218a	TO116
39	SE8840J	3,1		MON	2.8%	.40*†	TTL	5†		0.0	6.0	25nΔ		50n	63m	600m	-55	125	2	G03218a	TO88
40	TNG7711F	3,1		MON	3.0%	.45*†	TTL	11	15	0	7	12n			40m†		-55	125	1	G03209	FP21c
41	TNG7711P	3,1		MON	3.0%	.45*†	TTL	11	15	0	7	12n			40m†		-55	125	1	G03209	TO116
42	TNG7712F	3,1		MON	3.0%	.45*†	TTL	11	15	0	7	12n			40m†		0	75	1	G03209	FP21c
43	TNG7712P	3,1		MON	3.0%	.45*†	TTL	11	15	0	7	12n			40m†		0	75	1	G03209	TO116
44	TNG7811F	3,1		MON	3.0%	.45*†	TTL	11	15	0	7	12n			40m†		-55	125	1	G03209a	FP21c
45	TNG7811P	3,1		MON	3.0%	.45*†	TTL	11	15	0	7	12n			40m†		-55	125	1	G03209a	TO116
46	TNG7812F	3,1		MON	3.0%	.45*†	TTL	11	15	0	7	12n			40m†		0	75	1	G03209a	FP21c
47	TNG7812P	3,1		MON	3.0%	.45*†	TTL	11	15	0	7	12n			40m†		0	75	1	G03209a	TO116
48#	MMG52	3,1		MON	3.1%	.40†*	TTL	10Δ	12	0.0	5.0	12n	6.0n	8.0n	30m†	900m	0	75	1	G03107e	M75
49#	MMG53	3,1		MON	3.1%	.40†*	TTL	10Δ	6	0.0	5.0	12n	6.0n	8.0n	30m†	900m	0	75	1	G03107e	M75
50#	MMG72	3,1		MON	3.1%	.40†*	TTL	5Δ	12	0.0	5.0	12n	6.0n	8.0n	40m†	900m	0	75	2	G03129a	M75
51#	MMG73	3,1		MON	3.1%	.40†*	TTL	5Δ	6	0.0	5.0	12n	6.0n	8.0n	40m†	900m	0	75	2	G03129a	M75
52#	MMG102	3,1		MON	3.1%	.40†*	TTL	10Δ	12	0.0	5.0	12n	6.0n	8.0n	25m†	900m	0	75	1	G03107d	M75
53#	MMG103	3,1		MON	3.1%	.40†*	TTL	10Δ	6	0.0	5.0	12n	6.0n	8.0n	25m†	900m	0	75	1	G03107d	M75
54#	MMG112	3,1		MON	3.1%	.40†*	TTL	9Δ	12	0.0	5.0	12n	6.0n	8.0n	20m†	900m	0	75	2	G03129b	M75
55#	MMG113	3,1		MON	3.1%	.40†*	TTL	9Δ	6	0.0	5.0	12n	6.0n	8.0n	20m†	900m	0	75	2	G03129b	M75
56	PD9628-61	3,1		MON	3.5	.25	TTL	9Δ	11	0	5	6.0n	3.0n	4.5n	40m	1.0	-55	125	1	G03189a	TO116
57	PD9628-69	3,1		MON	3.5	.25	TTL	9Δ	9	0	5	6.0n	3.0n	4.5n	40m	1.0	0	75	1	G03189a	TO116
58	PD9628-71	3,1		MON	3.5	.25	TTL	9Δ	6	0	5	6.0n	3.0n	4.5n	40m	1.0	-55	125	1	G03189a	TO116
59	PD9628-79	3,1		MON	3.5	.25	TTL	9Δ	5	0	5	6.0n	3.0n	4.5n	40m	1.0	0	75	1	G03189a	TO116
60	PD9630-61	3,1		MON	3.5	.25	TTL	10Δ	11	0	5	6.0n	3.0n	4.5n	140m	1.0	-55	125	1	G03204	TO116
61	PD9630-69	3,1		MON	3.5	.25	TTL	10Δ	9	0	5	6.0n	3.0n	4.5n	140m	1.0	0	75	1	G03204	TO116
62	PD9630-71	3,1		MON	3.5	.25	TTL	10Δ	6	0	5	6.0n	3.0n	4.5n	140m	1.0	-55	125	1	G03204	TO116
63	PD9630-79	3,1		MON	3.5	.25	TTL	10Δ	5	0	5	6.0n	3.0n	4.5n	140m	1.0	0	75	1	G03204	TO116
64	PD9632-61	3,1		MON	3.5	.25	TTL	5†	11	0.0	5.0	6.0n	3.0n	4.5n	160m	1.0	-55	125	2	G03189c	TO116
65	PD9632-69	3,1		MON	3.5	.25	TTL	5†	9	0.0	5.0	6.0n	3.0n	4.5n	160m	1.0	0	75	2	G03189c	TO116
66	PD9632-71	3,1		MON	3.5	.25	TTL	5†	6	0.0	5.0	6.0n	3.0n	4.5n	160m	1.0	-55	125	2	G03189c	TO116
67	PD9632-79	3,1		MON	3.5	.25	TTL	5†	5	0.0	5.0	6.0n	3.0n	4.5n	160m	1.0	0	75	2	G03189c	TO116
68	PD9637-61	3,1		MON	3.5	.25	TTL	10Δ	11	0	5	6.0n	3.0n	4.5n	32m	1.0	-55	125	1	G03217	TO116
69	PD9637-69	3,1		MON	3.5	.25	TTL	10Δ	9	0	5	6.0n	3.0n	4.5n	32m	1.0	0	75	1	G03217	TO116
70	PD9637-71	3,1		MON	3.5	.25	TTL	10Δ	6	0	5	6.0n	3.0n	4.5n	32m	1.0	-55	125	1	G03217	TO116
71	PD9637-79	3,1		MON	3.5	.25	TTL	10Δ	5	0	5	6.0n	3.0n	4.5n	32m	1.0	0	75	1	G03217	TO116
72	PL9628-61	3,1		MON	3.5	.25	TTL	9Δ	11	0	5	6.0n	3.0n	4.5n	40m	1.0	-55	125	1	G03189a	TO86
73	PL9628-69	3,1		MON	3.5	.25	TTL	9Δ	9	0	5	6.0n	3.0n	4.5n	40m	1.0	0	75	1	G03189a	TO86
74	PL9628-71	3,1		MON	3.5	.25	TTL	9Δ	6	0	5	6.0n	3.0n	4.5n	40m	1.0	-55	125	1	G03189a	TO86
75	PL9628-79	3,1		MON	3.5	.25	TTL	9Δ	5	0	5	6.0n	3.0n	4.5n	40m	1.0	0	75	1	G03189a	TO86
76	PL9630-61	3,1		MON	3.5	.25	TTL	10Δ	11	0	5	6.0n	3.0n	4.5n	140m	1.0	-55	125	1	G03204	TO86
77	PL9630-69	3,1		MON	3.5	.25	TTL	10Δ	9	0	5	6.0n	3.0n	4.5n	140m	1.0	0	75	1	G03204	TO86
78	PL9630-71	3,1		MON	3.5	.25	TTL	10Δ	6	0	5	6.0n	3.0n	4.5n	140m	1.0	-55	125	1	G03204	TO86
79	PL9630-79	3,1		MON	3.5	.25	TTL	10Δ	5	0	5	6.0n	3.0n	4.5n	140m	1.0	0	75	1	G03204	TO86
80	PL9632-61	3,1		MON	3.5	.25	TTL	5†	11	0.0	5.0	6.0n	3.0n	4.5n	160m	1.0	-55	125	2	G03189c	TO116
81	PL9632-69	3,1		MON	3.5	.25	TTL	5†	9	0.0	5.0	6.0n	3.0n	4.5n	160m	1.0	0	75	2	G03189c	TO116
82	PL9632-71	3,1		MON	3.5	.25	TTL	5†	6	0.0	5.0	6.0n	3.0n	4.5n	160m	1.0	-55	125	2	G03189c	TO116
83	PL9632-79	3,1		MON	3.5	.25	TTL	5†	5	0.0	5.0	6.0n	3.0n	4.5n	160m	1.0	0	75	2	G03189c	TO116
84	PL9637-61	3,1		MON	3.5	.25	TTL	10Δ	11	0	5.0	6.0n	3.0n	4.5n	32m	1.0	-55	125	1	G03217	TO86
85	PL9637-69	3,1		MON	3.5	.25	TTL	10Δ	9	0	5.0	6.0n	3.0n	4.5n	32m	1.0	0	75	1	G03217	TO86
86	PL9637-71	3,1		MON	3.5	.25	TTL	10Δ	6	0	5.0	6.0n	3.0n	4.5n	32m	1.0	-55	125	1	G03217	TO86
87	PL9637-79	3,1		MON	3.5	.25	TTL	10Δ	5	0	5.0	6.0n	3.0n	4.5n	32m	1.0	0	75	1	G03217	TO86
88	NE8440A	3,1		MON	3.6%	.35*†	TTL	4		0	6.0	60n		75n	52m	1.4	0	75	2	G03216	TO116
89	NE8440J	3,1		MON	3.6%	.35*†	TTL	4		0	6.0	60n		75n	52m	1.4	0	75	2	G03216a	TO88
90	SE8440A	3,1		MON	3.6%	.35*†	TTL	4		0	6.0	60n		75n	52m	1.4	-55	125	2	G03216	TO116
91	SE8440J	3,1		MON	3.6%	.35*†	TTL	4		0	6	60n		75n	52m	1.4	-55	125	2	G03216a	TO88
92	564BE	3,1	4.0M	MON			TTL	7	9	0.0	4.0	60n			1.0m		-55	125	1		
93	564BH	3,1	4.0M	MON			TTL	7	9	0.0	4.0	60n			1.0m		-55	125	1		
94	M16701	3,1	4.0M	MON			TTL	7	9	0.0	4.0	60n			1.0m		-55	125	1		TO100
95	M46701	3,1	4.0M	MON			TTL	7	9	0.0	4.0	60n			1.0m		-55	125	1		FP26a
96	SWG50	3,1	20M%	MON	3.5	.26	TTL	11Δ	15	0.0	6.0	14n	5.0n	8.0n	20m	1.0	-55	125	1	G03150	CN3a
97	SWG51	3,1	20M%	MON	3.5	.26	TTL	11Δ	7	0.0	6.0	14n	5.0n	8.0n	20m	1.0	-55	125	1	G03150	CN3a
98	SWG52	3,1	20M%	MON	3.5	.26	TTL	11Δ	12	0.0	6.0	14n	5.0n	8.0n	20m	1.0	0	75	1	G03150	CN3a
99	SWG53	3,1	20M%	MON	3.5	.26	TTL	11Δ	6	0.0	6.0	14n	5.0n	8.0n	20m	1.0	0	75	1	G03150	CN3a
100	SWG100	3,1	20M%	MON	3.5	.26	TTL	11Δ	15	0.0	6.0	15n	5.0n	8.0n	25m	1.0	-55	125	1	G03128	CN3a
101	SWG101	3,1	20M%	MON	3.5	.26	TTL	11Δ	7	0.0	6.0	15n	5.0n	8.0n	25m	1.0	-55	125	1	G03128	CN3a
102	SWG102	3,1	20M%	MON	3.5	.26	TTL	11Δ	12	0.0	6.0	15n	5.0n	8.0n	25m	1.0	0	75	1	G03128	CN3a
103	SWG103	3,1	20M%	MON	3.5	.26	TTL	10Δ	6	0.0	6.0	15n	5.0n	8.0n	25m	1.0	0	75	1	G03128	CN3a
104	SWG110	3,1	20M%	MON	3.5	.26	TTL	10Δ	15	0.0	6.0	13n	6.0n	8.0n	20m	1.0	-55	125	1	G03129	CN3a
105	SWG111	3,1	20M%	MON	3.5	.26	TTL	10Δ	7	0.0	6.0	13n	6.0n	8.0n	20m	1.0	-55	125	1	G03129	CN3a
106	SWG112	3,1	20M%	MON	3.5	.26	TTL	10Δ	12	0.0	6.0	13n	6.0n	8.0n	20m	1.0	0	75	1	G03129	CN3a
107	SWG113	3,1	20M%	MON	3.5	.26	TTL	10Δ	6	0.0	6.0	13n	6.0n	8.0n	20m	1.0	0	75	1	G03129	CN3a
108	IT10	3,1E	10M	PCB	4.0	0.0	DTL	6		0	8				940m		5	71	8	G03152	CB37a
109	TG455	3,1M	20M	MON	3.5	.25	TTL	9Δ	15†	0	6	12n	5.0n	8.0n	80m	1.0 Δ	-55	125	1	G03107e	ZB159
110	TG456	3,1M	20M	MON	3.5	.25	TTL	9Δ	15†	0	6	12n	5.0n	8.0n	80m	1.0 Δ	0	75	1	G03107f	ZB159

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPER-ATING FREQ. (Hz)	3 PRO-CESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPA-GATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	TG457	3,1M	20M	MON	3.5	.25	TTL	9Δ	7†	0	6	12n	5.0n	8.0n	80m	1.0 Δ	-55	125	1	G03107f	ZB159
2	TG458	3,1M	20M	MON	3.5	.25	TTL	9Δ	7†	0	6	12n	5.0n	8.0n	80m	1.0 Δ	0	75	1	G03107f	ZB159
3	TNG4441	3,1M	20M	MON	3.5	.25	TTL	10Δ	10†	0	6	12n	3.0n	5.0n	80m	1.0 Δ	-55	125	1	G03107e	ZB158
4	TNG4442	3,1M	20M	MON	3.5	.25	TTL	10Δ	10†	0	6	12n	3.0n	5.0n	80m	1.0 Δ	0	75	1	G03107e	ZB158
5	TNG4443	3,1M	20M	MON	3.5	.25	TTL	10Δ	5†	0	6	12n	3.0n	5.0n	80m	1.0 Δ	-55	125	1	G03107e	ZB158
6	TNG4444	3,1M	20M	MON	3.5	.25	TTL	10Δ	5†	0.0	6.0	12n	3.0n	5.0n	80m	1.0 Δ	0	75	1	G03107e	ZB158
7	TNG4411	3,1M	40M	MON	3.5	.25	TTL	8	14†	0	6	11n	5.0n	8.0n	80m	1.0 Δ	-55	125	4	G03107e	ZB158
8	TNG4412	3,1M	40M	MON	3.5	.25	TTL	8	7†	0	6	11n	5.0n	8.0n	80m	1.0 Δ	0	75	4	G03107e	ZB158
9	TNG4413	3,1M	40M	MON	3.5	.25	TTL	8	14†	0	6	11n	5.0n	8.0n	80m	1.0 Δ	-55	125	4	G03107e	ZB158
10	TNG4414	3,1M	40M	MON	3.5	.25	TTL	8	7†	0	6	11n	5.0n	8.0n	80m	1.0 Δ	0	75	4	G03107e	ZB158
11	2001BE	3,4		MOH	2.1%	.1*†	TTL	5		0	5				150m		-55	125	1	G03201	CN11
12	A3102	3,4		MOS	-10	-1.0		3		27	0.0	75n	300n	25n	200m	1.0	-55	85	1	G03191	TO100
13	CD2101	3,4M		MON	-.75	-1.6†	ECT	2	12	5.7	0	24n			156m	320mΔ	-55	125	4	G03232	FP44
14#	FHY101	3,6		MON	1.9%	.80*	TTL	10	1	0	5	8n			28m	1.0	0	75	1	G06109	TO116
15#	FHY121	3,6		MON	1.9%	.80*	TTL	10	1	0	5	2n			28m	1.0	0	75	2	G06111	TO116
16	PL9604	3,6M		MON	.82%	.49†	RTL	3	4	0	3	15nΔ			15m†		-55	125	2	G0365b	TO91
17	US0114A	3A,M		MON	2.0%	.30†*	RCT	4.1	5	0.0	8.0		80n	1.5u	7.0m		-55	125	3	G04193f	FP22
18	US0114B	3A,M		MON	2.0%	.30†*	RCT	4	5	0.0	8.0		80n	1.5u	7.0m		-55	125	3	G04193f	FP23
19	USR0114A	3AM		MON	2.0%	.30*†	RCT	4	5	0.0	8.0		80n	1.5u	7.0m		-55	125	3	G0343c	FP22
20	USR0114B	3AM		MON	2.0%	.30*†	RCT	4	5	0.0	8.0		80n	1.5u	7.0m		-55	125	3	G0343c	FP23
21	TA5361	3C		MOS	9.99	.01†	DTL	3	50	15	15	50n%				4.0 Δ	-55	125	2	G03211	M135
22	CD4000E	3C		MOS	10	0.0†	TTL	3	50	0.0	10	200n			10u	6.7	-40	80	2	G03254	Δ001ab
23	CD4000	3C		MOS	10	.01†*	TTL	3	50	0.0	10	80n			1.0u%	4.5	-55	125	2	G03211a	FP44a
24	CD4000D	3C		MOS	10	.01†*	TTL	3	50	0.0	10	80n			1.0u%	4.5	-55	125	2	G03211a	M135
25	SCL4000D	3C		MOS	10	.01†*	TTL	3	50†	0.0	10.0	80n	250n	250n	1.0u%	6.7	-55	125	2	G03254	TO116
26	SCL4000F	3C		MOS	10	.01†*	TTL	3	50†	0.0	10.0	80n	250n	250n	1.0u%	6.7	-55	125	2	G03254	TO86
27	PL4G10ACF	3C	2.0M	MOS	-9%	-3*		2†		25	0	125nΔ			300m	1.0	0	70	8		FP48
28	PL4G10ACP	3C	2.0M	MOS	-9%	-3*		2†		25	0	125nΔ			300m	1.0	0	70	8		M149
29	PL4G10CF	3C	2.0M	MOS	-9%	-3*		2†		25	0	300nΔ			300m	1.0	0	70	8		FP48
30	PL4G10CP	3C	2.0M	MOS	-9%	-3*		2†		25	0	300nΔ			300m	1.0	0	70	8		M149
31	US0106A	3C,M		MON	2.0%	.30†*	RCT	5	25	0.0	8.0	90n	70n	930n	7.0m		-55	125	1	G03132	TO89
32	US0106B	3C,M		MON	2.0%	.30†*	RCT	5	25	0.0	8.0	90n	70n	930n	7.0m		-55	125	1	G03132	FP23
33	DN21	3CG	100k	PCB	0.0	-10	DTL	4†	10	12	6.0	120n%	1.0u	4.0u	160m	1.5	-20	55	4	G0347	CB10
34	DN1	3CG	300k	PCB	0.0	-10	DTL	4†	10	12	6.0	75n%	300n	1.0u	220m	1.5	-20	55	4	G0347	CB10
35	SDN1	3CG	1.5M	PCB	0.0	8.0	DTL	4†	10	12	12	100u%	150n	250n	400m	1.5	-40	75	4	G0347	CB10
36	DN1A	3CG	2.0M	PCB	0.0	-10	DTL	4†	7	12	6.0	40n%	100n	250n	430m	1.5	-20	55	4	G0347	CB10
37	DN2	3CG	5.0M	PCB	0.0	-10	DTL	4†	7	12	6.0	20n%	50n	100n	430m	1.5	-20	55	4	G0347	CB10
38	USR0106A	3CM		MON	2.0%	.30*†	RCT	5	25	0.0	8.0	90n	70n	930n	7.0m		-55	125	1	G03132	FP22
39	USR0106B	3CM		MON	2.0%	.30*†	RCT	5	25	0.0	8.0	90n	70n	930n	7.0m		-55	125	1	G03132	FP23
40	MEM522	3E		MON	-12	0.0		3		28	0.0	250n			25m				2	G03104	CN49
41	MEM522F	3E		MON	-12	0.0		3		28	0.0	250n			25m				2	G03104	FP⍁
42	502A	3EF	4.0M	MON	4.0%	.25*	TTL	4	50	0.0	6.0	60n	80n†	40n†	20m	800m	-55	125		G03120	TO100
43	502AH	3EF	4.0M	MON	4.0%	.25*	TTL	4	50	0.0	6.0	60n	80n†	40n†	20m	800m	-55	125		G03120	FP26a
44	522A	3F	5.0M	MON	4.0%	.25*	TTL	7	9†	0.0	6.0	60n	80n†	40n†	1.0m	800m	-55	125	1	G03123	TO100
45	TNG3231	3F	20M	MON	3.0	.30	TTL	4	7	0.0	7.0	15n			15m	1.0 Δ	15	55	1	G03107a	CN13a
46	TNG3211	3FM	20M	MON	3.0	.30	TTL	8	20	0	5	12n			20m	1.0 Δ	-55	125	1	G03107	TO116
47	TNG3211F	3FM	20M	MON	3.0	.30	TTL	8	20	0	5	12n			20m	1.0 Δ	-55	125	1	G03107	FP21c
48	TNG3212	3FM	20M	MON	3.0	.30	TTL	8	20	0	5	12n			20m	1.0 Δ	0	75	1	G03107	TO116
49	TNG3212F	3FM	20M	MON	3.0	.30	TTL	8	20	0	5	12n			20m	1.0 Δ	0	75	1	G03107	FP21c
50	TNG3213	3FM	20M	MON	3.0	.30	TTL	8	7	0	5	12n			20m	1.0 Δ	-55	125	1	G03107	TO116
51	TNG3213F	3FM	20M	MON	3.0	.30	TTL	8	7	0	5	12n			20m	1.0 Δ	-55	125	1	G03107	FP21c
52	TNG3214	3FM	20M	MON	3.0	.30	TTL	8	7	0	5	12n			20m	1.0 Δ	0	75	1	G03107	TO116
53	TNG3214F	3FM	20M	MON	3.0	.30	TTL	8	7	0	5	12n			20m	1.0 Δ	0	75	1	G03107	FP21c
54	TNG3251F	3FM	20M	MON	3.0	.30	TTL	9Δ	15	0	5	18n	5.0n	5.0n	30m	1.0 Δ	-55	125	1	G03107b	TO85
55	TNG3252F	3FM	20M	MON	3.0	.30	TTL	9Δ	15	0	5	18n	5.0n	5.0n	30m	1.0 Δ	0	75	1	G03107b	TO85
56	TNG3253F	3FM	20M	MON	3.0	.30	TTL	9Δ	7	0	5	18n	5.0n	5.0n	30m	1.0 Δ	-55	125	1	G03107b	TO85
57	TNG3254F	3FM	20M	MON	3.0	.30	TTL	9Δ	7	0	5	18n	5.0n	5.0n	30m	1.0 Δ	0	75	1	G03107b	TO85
58	TNG4211F	3FM	20M	MON	3.0	.30	TTL	5	15	0	5	18n	5.0n	5.0n	60m	1.0 Δ	-55	125	2	G03107c	TO85
59	TNG4212F	3FM	20M	MON	3.0	.30	TTL	5	15	0	5	18n	5.0n	5.0n	60m	1.0 Δ	0	75	2	G03107c	TO85
60	TNG4213F	3FM	20M	MON	3.0	.30	TTL	5	7	0	5	18n	5.0n	5.0n	60m	1.0 Δ	-55	125	2	G03107c	TO85
61	TNG4214F	3FM	20M	MON	3.0	.30	TTL	5	7	0	5	18n	5.0n	5.0n	60m	1.0 Δ	0	75	2	G03107c	TO85
62	SN17911	3G		MON	.81*Δ	.20*	RTL	4	7	0.0	5.0		140n	25m			-55	125	1	G03154	
63	NE200	3G	2.0M	PCB	10	.40	DTL	5†	2	6.0	12	30n	200n	150n	1.6	3.0	-55	100	6	G0369	CB15
64	MIC330-1A	3M					CTL	3	10	0.0	4.0	15n			20m	200m	-55	125	2		TO89
65	MIC330-1B	3M					CTL	3	10	0.0	4.0	15n			20m	200m	-55	125	2		TO86
66	MIC330-1C	3M					CTL	3	10	0.0	4.0	15n			20m	200m	-55	125	2		CN17
67	MIC330-2A	3M					CTL	3	10	0.0	4.0	15n			20m	200m	0	100	2		TO89
68	MIC330-2B	3M					CTL	3	10	0.0	4.0	15n			20m	200m	0	100	2		TO86
69	MIC330-2C	3M					CTL	3	10	0.0	4.0	15n			20m	200m	0	100	2		CN17
70	MIC330-3A	3M					CTL	3	10	0.0	4.0	15n			20m	200m	15	55	2		TO89
71	MIC330-3B	3M					CTL	3	10	0.0	4.0	15n			20m	200m	15	55	2		TO86
72	MIC330-3C	3M					CTL	3	10	0.0	4.0	15n			20m	200m	15	55	2		CN17
73	MIC331-1A	3M					CTL	2	10	0.0	4.0	15n			30m	200m	-55	125	3		TO89
74	MIC331-1B	3M					CTL	2	10	0.0	4.0	15n			30m	200m	-55	125	3		TO86
75	MIC331-1C	3M					CTL	2	10	0.0	4.0	15n			30m	200m	-55	125	3		CN17
76	MIC331-2A	3M					CTL	2	10	0.0	4.0	15n			30m	200m	0	100	3		TO89
77	MIC331-2B	3M					CTL	2	10	0.0	4.0	15n			30m	200m	0	100	3		TO86
78	MIC331-2C	3M					CTL	2	10	0.0	4.0	15n			30m	200m	0	100	3		CN17
79	MIC331-3A	3M					CTL	2	10	0.0	4.0	15n			30m	200m	15	55	3		TO89
80	MIC331-3B	3M					CTL	2	10	0.0	4.0	15n			30m	200m	15	55	3		TO86
81	MIC331-3C	3M					CTL	2	10	0.0	4.0	15n			30m	200m	15	55	3		CN17
82	MIC360-1A	3M					CTL	2	10	0.0	4.0	15n			40m	200m	-55	125	4		TO89
83	MIC360-1B	3M					CTL	2	10	0.0	4.0	15n			40m	200m	-55	125	4		TO86
84	MIC360-1C	3M					CTL	2	10	0.0	4.0	15n			40m	200m	-55	125	4		CN17
85	MIC360-2A	3M					CTL	2	10	0.0	4.0	15n			40m	200m	0	100	4		TO89
86	MIC360-2B	3M					CTL	2	10	0.0	4.0	15n			40m	200m	0	100	4		TO86
87	MIC360-2C	3M					CTL	2	10	0.0	4.0	15n			40m	200m	0	100	4		CN17
88	MIC360-3A	3M					CTL	2	10	0.0	4.0	15n			40m	200m	15	55	4		TO89
89	MIC360-3B	3M					CTL	2	10	0.0	4.0	15n			40m	200m	15	55	4		TO86
90	MIC360-3C	3M					CTL	2	10	0.0	4.0	15n			40m	200m	15	55	4		CN17
91	SD3720	3M					RTL	2		0.0	3.6	28nΔ			50m		0	75	2	G0359	CN⍁
92	SD3721	3M					RTL	3		0.0	3.6	28nΔ			60m		0	75	2	G0365c	CN⍁
93	SD3730	3M					RTL	2		0.0	3.6	50nΔ			22m		0	75	2	G0359	CN⍁
94	SD3741	3M					RTL	3		0.0	3.6	50nΔ			15m		0	75	2	G0365f	M⍁
95	SD3745	3M					RTL	2		0.0	3.6	50nΔ			22m		0	75	4	G0391c	M⍁
96	SD3746	3M					RTL	3†		0.0	3.6	90nΔ			17m		0	75	2	G0379g	
97	N7402J	3M			2.0%	.80*	TTL	2	10	0.0	5.0	8.0n			254m%		0	70	4	G03241	TO88
98	S5402J	3M			2.0%	.80*	TTL	2	10	0.0	5.0	8.0n			269m%		-55	125	4	G03241	TO88
99#	9909-1-5B	3M		MON			RTL	2	30	0.0	3.0				10m†		-55	125	1	G0379c	TO99
100#	9910-1-5B	3M		MON			RTL	2	4	0.0	3.0				4.0m†		-55	125	2	G0391	TO99
101#	9911-1-5B	3M		MON			RTL	4	7	0.0	3.0				4.0m†		-55	125	1	G0383	TO99
102	U5B990328	3M		MON			RTL	3	16	0.0	3.6	15n			20m	250m	15	55	1	G0382	TO99
103	U5B990728	3M		MON			RTL	4	16	0.0	3.6	15n			20m	250m	15	55	1	G0380	TO99
104	U5B990729	3M		MON			RTL	4	16	0.0	3.6	15n			20m	250m	0	70	1	G0380	TO99
105	U5B991028	3M		MON			RTL	2	4	0.0	3.6	15n			40m	250m	15	55	2	G0359	TO99
106	U5B991428	3M		MON			RTL	2	4	0.0	3.6	15n			40m	250m	0	70	2	G0359	TO99
107	U5B991528	3M		MON			RTL	2	16	0.0	3.6	15n				300m	15	55	2	G03153	TO99
108	U5F990328	3M		MON			RTL	2	16	0.0	3.6	15n				300m	0	70	2	G03153	TO99
109	U5F990329	3M		MON			RTL	3	16	0.0	3.6	15n			20m	250m	0	70	1	G0382	TO100
110	U5F990728	3M		MON			RTL	4	16	0.0	3.6	15n			20m	250m	15	55	1	G0380	TO100

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	U5F990729	3M		MON			RTL	4	16	0.0	3.6	15n			20m	250m	0	70	1	G0380	TO100
2	U5F991028	3M		MON			RTL	2	4	0.0	3.6	15n			40m	250m	15	55	2	G0359	TO100
3	U5F991029	3M		MON			RTL	2	4	0.0	3.6	15n			40m	250m	0	70	2	G0359	TO100
4	U5F991428	3M		MON			RTL	2	16	0.0	3.6	15n				300m	15	55	2	G03153	TO100
5	U5F991429	3M		MON			RTL	2	16	0.0	3.6	15n				300m	0	70	2	G03153	TO100
6	U5F991528	3M		MON			RTL	3	16	0.0	3.6	15n			40m	250m	15	55	2	G0377	TO100
7	U8A990328	3M		MON			RTL	3	16	0.0	3.6	15n			20m	250m	15	55	1	G0382	CN34
8	U8A990329	3M		MON			RTL	3	16	0.0	3.6	15n			20m	250m	0	70	1	G0382	CN34
9	U8A990728	3M		MON			RTL	4	16	0.0	3.6	15n			20m	250m	15	55	1	G0380	CN34
10	U8A990729	3M		MON			RTL	4	16	0.0	3.6	15n			20m	250m	0	70	1	G0380	CN34
11	U8A991028	3M		MON			RTL	2	4	0.0	3.6	15n			40m	250m	15	55	2	G0359	CN34
12	U8A991029	3M		MON			RTL	2	4	0.0	3.6	15n			40m	250m	0	70	2	G0359	CN34
13	U8A991428	3M		MON			RTL	2	16	0.0	3.6	15n				300m	15	55	2	G03153	CN34
14	U8A991429	3M		MON			RTL	2	16	0.0	3.6	15n				300m	0	70	2	G03153	CN34
15	U8A991528	3M		MON			RTL	3	16	0.0	3.6	15n			40m	250m	15	55	2	G0377	CN34
16	US0909D	3M		MON			RTL	2	30	0	8	30n⧄			250m		-55	125	1	G0379d	TO78
17	US0909E	3M		MON			RTL	2	30	0.0	8.0	30n⧄			250m		-55	125	1	G0379b	TO91
18	US0910D	3M		MON			RTL	2	5	0	8	30n⧄			250m		-55	125	2	G0359	TO78
19	US0910E	3M		MON			RTL	2	5	0.0	8.0	30n⧄			250m		-55	125	2	G0359	TO91
20	US0960D	3M		MON			RTL	2	30	0	8	30n			250m		-55	125	2	G0379b	TO78
21	USN0960D	3M		MON			RTL	2	30	0	8	30n			250m		0	70	2	G0379b	TO78
22	PL9609-21	3M		MON	.75%	.45†	RTL	2	30	0	3	80nΔ			10m†		-55	125	2	G0379f	ZB155
23	PL9609-23	3M		MON	.75%	.45†	RTL	2	30	0	3	80nΔ			10m†		0	75	2	G0379f	ZB155
24	PL9909-21	3M		MON	.75%	.45†	RTL	2	30	0	3	80nΔ	70n	90n	10m†		-55	125	1	G0379d	ZB155
25	PL9909-23	3M		MON	.75%	.45†	RTL	2	30	0	3	80nΔ	70n	90n	10m†		0	75	1	G0379d	ZB155
26	PL9910-21	3M		MON	.75%	.45†	RTL	2	4	0	3	45nΔ	40n	50n	4m†		-55	125	2	G0359b	ZB155
27	PL9910-23	3M		MON	.75%	.45†	RTL	2	4	0	3	45nΔ	40n	50n	4m†		0	75	2	G0359b	ZB155
28	PL9939-21	3M		MON	.75%	.45†	RTL	3	4	0	3	45nΔ			4m†		-55	125	2	G0392	ZB165
29	PL9939-23	3M		MON	.75%	.45†	RTL	3	4	0	3	45nΔ			4m†		0	75	2	G0392	ZB165
30	PL9602	3M		MON	.82%	.49†	RTL	3Δ	32	0	3	18nΔ			15m†		-55	125	1	G03117	TO91
31	PL9603	3M		MON	.82%	.49†	RTL	3	4	0	3	15nΔ			15m†		-55	125	2	G0365	TO91
32#	SP214B	3M		MON	.84	.22	RTL	4	4	0.0	8.0	30n			2.0m†	320m	0	70	1	G03195	CN6a
33#	SP218B	3M		MON	.84	.22	RTL	2	30	0.0	8.0	50n			10m†	320m	0	70	1	G0336	CN6a
34#	SP222B	3M		MON	.84	.22	RTL	4	4	0.0	8.0	30n			4.0m†	320m	0	70	2	G0359b	CN6a
35#	SP223B	3M		MON	.84	.22	RTL	6	4	0.0	8.0	30n			4.0m†	320m	0	70	2	G03195b	CN23a
36#	SP264B	3M		MON	.84	.22	RTL	4	4	0	8	30n			2.0m	320m	0	70	1	G03195a	FP2
37#	SP268B	3M		MON	.84	.22	RTL	2	30	0	8	50n			10m	320m	0	70	1	G0379e	FP2
38#	SP272B	3M		MON	.84	.22	RTL	4	8	0	8	30n			4.0m	320m	0	70	2	G0364a	FP2
39#	SP273B	3M		MON	.84	.22	RTL	6	8	0	8	30n			4.0m	320m	0	70	2	G03195b	FP2
40	PL911#1	3M		MON	.90	.15	RTL	4		0.0	3.0			4.0m			-55	125	1	G0383	CN13
41	PL911#2	3M		MON	.90	.15	RTL	4		0.0	3.0			4.0m			-55	125	1	G0383	FP2
42#	SP314B	3M		MON	1.0	.22	RTL	4	5	0	8	12n			15m	320m	0	70	1	G03195	TO78
43#	SP323B	3M		MON	1.0	.22	RTL	6	10	0	8	12n			30m	320m	0	70	2	G03195b	TO100
44#	SP364B	3M		MON	1.0	.22	RTL	4	5	0	8	12n			15m	320m	0	70	1	G03195a	FP2
45#	SP372B	3M		MON	1.0	.22	RTL	4	10	0	8	12n			30m	320m	0	70	2	G0364a	FP2
46#	SP373B	3M		MON	1.0	.22	RTL	6	10	0	8	12n			30m	320m	0	70	2	G03195b	FP2
47	MWuL909	3M		MON	1.1	.20	RTL	2	30	0.0	3.0	55n			10m	250m	-55	125	1	G0336	CN37
48	MWuL910	3M		MON	1.1	.20	RTL	2	8	0.0	8.0	25n			4.0m	250m	-55	125	2	G0366	CN37
49	MWuL911	3M		MON	1.1	.20	RTL	4	7	0.0	8.0	25n			4.0m	250m	-55	125	1	G0358	CN37
50	PL9609	3M		MON	1.1	.20	RTL	2	30	0.0	3.0	55n			250m	250m	-55	125	2	G0379b	TO78
51	FuL90329	3M		MON	1.1	.25	RTL	3	80	0.0	3.6	10n			16m	300m	15	55	1	G0390	TO99
52	FuL91029	3M		MON	1.1	.25	RTL	4	8	0.0	3.6	25n			4.0m	300m	15	55	2	G0366	TO99
53	FuL91429	3M		MON	1.1	.25	RTL	2	32	0.0	3.6	10n			34m	300m	15	55	2	G03165	TO99
54	FuL91529	3M		MON	1.1	.25	RTL	3	16	0.0	3.6	10n			34m	300m	15	55	2		TO100
55	uL903#1	3M		MON	1.1	.25	RTL	3	5	0.0	12	12n			27m		-55	125	1	G0389	CN34
56	uL903#2	3M		MON	1.1	.25	RTL	3	5	0.0	12	12n			27m		0	100	1	G0389	TO70
57	uL907#1	3M		MON	1.1	.25	RTL	4	5	0.0	12	12n			27m		-55	125	1	G0390	CN34
58	uL907#2	3M		MON	1.1	.25	RTL	4	5	0.0	12	12n			27m		0	100	1	G0390	TO70
59	uL914	3M		MON	1.1	.25	RTL	2	32	0.0	3.6	14n			54m		-15	55	2	G0391	CN34
60	uL915	3M		MON	1.1	.25	RTL	3	10	0.0	12	12n			54m		-15	55	2	G0392	CN38
61#	ZST111E	3M		MON	1.2%	1.7*	DTL	5Δ	8	0.0	5.0	20n	10n	50n	110m	1.0	-55	125	1	G03127a	CN2
62#	ZST131E	3M		MON	1.2%	1.7*	DTL	5Δ	12	0.0	5.0	20n	10n	50n	110m	1.0	0	70	1	G03127a	CN2
63	US0102B	3M		MON	2.0%	.30†*	RCT	6	5	0.0	8.0	65n	150n	1.4u	7.0m		-55	125	1	G0343a	FP23
64	US0104A	3M		MON	2.0%	.30†*	RCT	3	5	0.0	8.0	50n	130n	1.2u	7.0m		-55	125	2	G0446	TO89
65	US0104B	3M		MON	2.0%	.30†*	RCT	3	5	0.0	8.0	50n	130n	1.2u	7.0m		-55	125	2	G0446	FP23
66	US0112	3M		MON	2.0%	.30*	RCT	2	25	0.0	8.0	175n	70n	930n			-55	125	3	G04193d	TO85
67	US0113	3M		MON	2.0%	.30*	RCT	2	25%	0.0	8.0	175n	70n	930n			-55	125	3	G04193e	TO85
68	USR0102A	3M		MON	2.0%	.30*†	RCT	6	5	0.0	8.0	65n	150n	1.4u	7.0m		-55	125	1	G0343a	FP22
69	USR0102B	3M		MON	2.0%	.30*†	RCT	6	5	0.0	8.0	65n	150n	1.4u	7.0m		-55	125	1	G0343a	FP23
70	USR0104A	3M		MON	2.0%	.30*†	RCT	3	5	0.0	8.0	50n	130n	1.2u	7.0m		-55	125	2	G03190	FP22
71	USR0104B	3M		MON	2.0%	.30*†	RCT	3	5	0.0	8.0	50n	130n	1.2u	7.0m		-55	125	2	G03190	FP23
72#	FCH102	3M		MON	2.3%	.80*	DTL	10Δ	8	0	6	31n	70n	85n	7.0m	1.2 Δ	-55	125	1	G03180	TO84
73#	FCH112	3M		MON	2.3%	.80*	DTL	10Δ	8	0	6	31n	70n	85n	11m	1.2 Δ	-55	125	1	G03180a	TO84
74#	FCH122	3M		MON	2.3%	.80*	DTL	5Δ	8	0	6	31n	70n	85n	14m	1.2 Δ	-55	125	2	G03180b	TO84
75#	FCH132	3M		MON	2.3%	.80*	DTL	5Δ	8	0	6	31n	70n	85n	22m	1.2 Δ	-55	125	2	G03180c	TO84
76#	FCH142	3M		MON	2.3%	.80*	DTL	3Δ	8	0	6	31n	70n	85n	21m	1.2 Δ	-55	125	3	G03180d	TO84
77#	FCH152	3M		MON	2.3%	.80*	DTL	3	8	0	6	31n	70n	85n	21m	1.2 Δ	-55	125	3	G03180f	TO84
78#	FCH162	3M		MON	2.3%	.80*	DTL	3Δ	8	0	6	31n	70n	85n	33m	1.2 Δ	-55	125	3	G03180e	TO84
79#	FCH172	3M		MON	2.3%	.80*	DTL	3	8	0	6	31n	70n	85n	33m	1.2 Δ	-55	125	3	G03180g	TO84
80#	FCH182	3M		MON	2.3%	.80*	DTL	2	8	0	6	31n	70n	85n	28m	1.2 Δ	-55	125	4	G03180h	TO84
81#	FCH192	3M		MON	2.3%	.80*	DTL	2	8	0	6	31n	70n	85n	44m	1.2 Δ	-55	125	4	G03180j	TO84
82#	FCH222	3M		MON	2.3%	.80*	DTL	3	16	0	6	93n	105n	80n	22m	1.2 Δ	-55	125	2	G03181	TO84
83	US0112C	3M		MON	3.0%	.30*	RCT	2	25	0.0	8.0	175n	70n	930n	8.0m		-55	125	3	G04193d	TO85
84	US0113C	3M		MON	3.0%	.30*	RCT	2	25%	0.0	8.0	175n	70n	930n	8.0m		-55	125	3	G04193e	TO85
85	USR0112C	3M		MON	3.0%	.30*†	RCT	2	25	0.0	8.0	175n	70n	930n	8.0n		-55	125	3	G0443d	TO85
86	USR0113C	3M		MON	3.0%	.30*†	RCT	2	25%	0.0	8.0	175n	70n	930n	8.0m		-55	125	3	G0343e	TO85
87#	OMY100	3M		MON	3.0%	.75*	DTL	4Δ	6	6.0	6.0	23n	65n†	55n†	18m	950m	-55	125	1	G03135	TO74
88#	OMY104	3M		MON	3.0%	.75*	DTL	2	6	6.0	6.0	23n	65n†	55n†	36m	950m	-55	125	2	G03182	TO74
89	OMY110	3M		MON	3.0%	.75*	DTL	5		6	6	24n			890m		0	125	1	G03135	TO74
90#	OMY120	3M		MON	3.0%	.75*	DTL	4Δ	4	6.0	6.0	23n	65n†	55n†	18m	950m	0	75	1	G03135	TO74
91#	OMY124	3M		MON	3.0%	.75*	DTL	2	4	6.0	6.0	23n	65n†	55n†	36m	950m	0	75	2	G03182	TO74
92	US0103A	3M		MON	3.8%	.30†*	RCT	6	25	0.0	8.0	90n	150n	1.4n	7.0m		-55	125	1	G0343b	TO89
93	US0103B	3M		MON	3.8%	.30†*	RCT	6	25	0.0	8.0	90n	150n	1.4n	7.0m		-55	125	1	G0343b	FP23
94	US0115A	3M		MON	3.8%	.30†*	RCT	4	25	0.0	8.0		80n	1.5n	7.0m		-55	125	3	G04193g	TO89
95	US0115B	3M		MON	3.8%	.30†*	RCT	4	25	0.0	8.0		80n	1.5n	7.0m		-55	125	3	G04193g	FP23
96	USR0103A	3M		MON	3.8%	.30*†	RCT	6	25	0.0	8.0	90n	150n	1.4u	7.0m		-55	125	1	G0343b	FP22
97	USR0103B	3M		MON	3.8%	.30*†	RCT	6	25	0.0	8.0	90n	150n	1.4u	7.0m		-55	125	1	G0343b	FP23
98	USR0115A	3M		MON	3.8%	.30*†	RCT	4	25	0.0	8.0		80n	1.5u	7.0m		-55	125	3	G0343f	FP22
99	USR0115B	3M		MON	3.8%	.30*†	RCT	4	25	0.0	8.0		80n	1.5u	7.0m		-55	125	3	G0343f	FP23
100	GB1713B	3M	.20M	TFH	5.0Δ	2.0	RTL	3	20	0	15	80n	200n	70n	10m	2.5	-55	125	1		M57
101	GB1723B	3M	.20M	TFH	5.0Δ	2.0	RTL	3	20	0	15	80n	200n	70n	10m	2.5	-55	125	1		M57a
102	GG1713B	3M	.20M	TFH	5.0Δ	2.0	RTL	3	6	0	15	80n	200n	70n	5.0m	2.5	-55	125	2		M57
103	GG1723B	3M	.20M	TFH	5.0Δ	2.0	RTL	3	6	0	15	80n	200n	70n	5.0m	2.5	-55	125	2		M57a
104	GG2713B	3M	.20M	TFH	5.0Δ	2.0	RTL	5	6	0	15	80n	200n	70n	5.0m	2.5	-55	125	1		M57
105	GG2723B	3M	.20M	TFH	5.0Δ	2.0	RTL	5	6	0	15	80n	200n	70n	5.0m	2.5	-55	125	1		M57a
106	4111	3M	500k	PCB	0.0	-3.0	DTL	6	9	15	10	400n	800n	100n	680m	500m	-20	55	2	G0338	CB30
107	4113	3M	1.0M	PCB	0.0	-3.0	DTL	2	9	15	10		130n	70n	1.3	500m	-20	55	6	G0339	CB30
108	4115	3M	1.0M	PCB	0.0	-3.0	DTL	4†	9	15	10		130n	70n	1.0	500m	-20	55	4	G0340	CB30
109	4117	3M	1.0M	PCB	0.0	-3.0	DTL	5	9	15	10		130n	70n	830m	500m	-20	55	3	G0341	CB30
110	4119	3M	1.0M	PCB	0.0	-3.0	DTL	8	9	15	10		130n	70n	680m	500m	-20	55	2	G0342	CB30

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL		LOGIC TYPE	FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (s)	MAX.		MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP.		CKT PER MOD	DRAWINGS	
					4 '1' (V)	5 '0' (V)		IN	OUT	NEG. (V)	POS. (V)		RISE TIME tr (s)	FALL TIME tf (s)			LOW °C	HI °C		LOGIC DWG. No	OUTLINE DWG. No Δ=MO
1	4112	3M	1.0M	PCB	-3.0	0.0	RTL	2	9	15	10		70n	600n	937m	500m	-20	55	6	G0339	CB30
2	4114	3M	1.0M	PCB	-3.0	0.0	RTL	4†	9	15	10		70n	600n	940m	500m	-20	55	4	G0340	CB30
3	4116	3M	1.0M	PCB	-3.0	0.0	RTL	5	9	15	10		70n	600n	943m	500m	-20	55	3	G0341	CB30
4	4118	3M	1.0M	PCB	-3.0	0.0	RCT	8	9	15	10		70n	600n	577m	500m	-20	55	2	G0342	CB30
5	GB1514B	3M	1.0M	TFH	5.0Δ	2.0	RTL	3	20	0	12	30n	60n	25n	50m	2.5	-55	125	1	G0370	M57
6	GB1524B	3M	1.0M	TFH	5.0Δ	2.0	RTL	3	20	0	12	30n	60n	25n	50m	2.5	-55	125	1	G0370	M57a
7	GB2714C	3M	1.0M	TFH	5.0Δ	2.0	RCT	3	20	0	15	50n	100n	40n	10m	1.5	-55	125	1	G0370	M57
8	GB2724C	3M	1.0M	TFH	5.0Δ	2.0	RCT	3	20	0	15	50n	100n	40n	10m	1.5	-55	125	1	G0370	M57a
9	GG1514B	3M	1.0M	TFH	5.0Δ	2.0	RTL	3	6	0	12	30n	60n	25n	25m	2.5	-55	125	2	G0371	M57
10	GG1524B	3M	1.0M	TFH	5.0Δ	2.0	RTL	3	6	0	12	30n	60n	25n	25m	2.5	-55	125	2	G0371	M57a
11	GG2514B	3M	1.0M	TFH	5.0Δ	2.0	RTL	5	6	0.0	12	30n	60n	25n	25m	2.5	-55	125	2	G0371a	M57
12	GG2524B	3M	1.0M	TFH	5.0Δ	2.0	RTL	5	6	0.0	12	30n	60n	25n	25m	2.5	-55	125	2	G0371a	M57a
13	GG3714C	3M	1.0M	TFH	5.0Δ	2.0	RCT	3	6	0	15	50n	100n	40n	5.0m	1.5	-55	125	2		M57
14	GG3724C	3M	1.0M	TFH	5.0Δ	2.0	RCT	3	6	0	15	50n	100n	40n	5.0m	1.5	-55	125	2		M57a
15	GG4714C	3M	1.0M	TFH	5.0Δ	2.0	RCT	5	6	0	15	50n	100n	40n	5.0m	1.5	-55	125	1		M57
16	GG4724C	3M	1.0M	TFH	5.0Δ	2.0	RCT	5	6	0	15	50n	100n	40n	5.0m	1.5	-55	125	1		M57a
17	GB1414B	3M	2.0M	TFH	5.0Δ	2.0	RTL	3	20	0	9	20n	40n	20n	100m	2.5	-55	125	1	G0370	M57
18	GB1424B	3M	2.0M	TFH	5.0Δ	2.0	RTL	3	20	0	9	20n	40n	20n	100m	2.5	-55	125	1	G0370	M57a
19	GG1414B	3M	2.0M	TFH	5.0Δ	2.0	RTL	3	6	0	9	20n	40n	20n	50m	2.5	-55	125	2	G0371	M57
20	GG1424B	3M	2.0M	TFH	5.0Δ	2.0	RTL	3	6	0	9	20n	40n	20n	50m	2.5	-55	125	2	G0371	M57a
21	GG2414B	3M	2.0M	TFH	5.0Δ	2.0	RTL	5	6	0	9	20n	40n	20n	50m	2.5	-55	125	1	G0371a	M57
22	GG2424B	3M	2.0M	TFH	5.0Δ	2.0	RTL	5	6	0	9	20n	40n	20n	50m	2.5	-55	125	1	G0371a	M57a
23	1111	3M	5.0M	PCB	0.0	-3.0	DTL	6	9	15	10	30n	90n	50n	679m	500m	-20	55	2	G0338	CB30
24	1113	3M	5.0M	PCB	0.0	-3.0	DTL	2	9	15	10	30n	90n	50n	1.3	500m	-20	55	6	G0339	CB30
25	1115	3M	5.0M	PCB	0.0	-3.0	DTL	4†	9	15	10	30n	90n	50n	1.0	500m	-20	55	4	G0340	CB30
26	1117	3M	5.0M	PCB	0.0	-3.0	DTL	5	9	15	10	30n	90n	50n	830m	500m	-20	55	3	G0341	CB30
27	1110	3M	5.0M	PCB	-3.0	0.0	RCT	6	9	15	10	30n	90n	50n	656m	500m	-20	55	2	G0338	CB30
28	GB2515C	3M	5.0M	TFH	5.0Δ	2.0	RCT	3	20	0	12	15n	40n	15n	50m	1.5	-55	125	1	G0370	M57
29	GB2525C	3M	5.0M	TFH	5.0Δ	2.0	RCT	3	20	0	12	15n	40n	15n	50m	1.5	-55	125	1	G0370	M57a
30	GG3515C	3M	5.0M	TFH	5.0Δ	2.0	RCT	3	6	0	12	15n	40n	15n	25m	1.5		T 5	2	G0371	ZB54
31	GG4515C	3M	5.0M	TFH	5.0Δ	2.0	RCT	5	6	0	12	15n	40n	15n	25m	1.5	-55	125	1	G0371	M57
32	GG4525C	3M	5.0M	TFH	5.0Δ	2.0	RCT	5	6	0.0	12	15n	40n	15n	25m	1.5	-55	125	1	G0371	M57a
33	NC1021	3M	8.0M	MON	.82	.57	RTL	4	2†	2.7	3.3	13n	20n	28n		256m	-55	125	1	G0364	CN29
34	NC2021	3M	8.0M	MON	.82	.57	RTL	4	2†	2.7	3.3	13n	20n	28n		256m	0	100	1	G0364	CN29
35	NC3021	3M	8.0M	MON	.82	.57	RTL	4	2†	2.7	3.3	13n	20n	28n		256m	15	55	1	G0364	CN29
36	6111	3M	10M	PCB	0.0	-3.0	DTL	6	9	15	10	20n	60n	50n	680m	500m	-20	55	2	G0338	CB30
37	6113	3M	10M	PCB	0.0	-3.0	DTL	2	9	15	10	20n	60n	50n	528m	500m	-20	55	6	G0339	CB30
38	6115	3M	10M	PCB	0.0	-3.0	DTL	4†	9	15	10	20n	60n	50n	1.0	500m	-20	55	4	G0340	CB30
39	6117	3M	10M	PCB	0.0	-3.0	DTL	5	9	15	10	20n	60n	50n	830m	500m	-20	55	3	G0341	CB30
40	6119	3M	10M	PCB	0.0	-3.0	DTL	8	9	15	10	20n	60n	50n	528m	500m	-20	55	2	G0342	CB30
41	6124	3M	10M	PCB	0.0	-3.0	RCT	4†	9	15	10	12n	35n	50n	1.1	500m	-20	55	4	G0344	CB30
42	6110	3M	10M	PCB	-3.0	0.0	RCT	6	9	15	10	30n	50n	70n	727m	500m	-20	55	2	G0338	CB30
43	6114	3M	10M	PCB	-3.0	0.0	DTL	4†	9	15	10	30n	50n	70n	1.2	500m	-20	55	4	G0340	CB30
44	6118	3M	10M	PCB	-3.0	0.0	DTL	8	9	15	10	30n	50n	70n	577m	500m	-20	55	2	G0341	CB30
45	6122	3M	10M	PCB	-3.0	0.0	RCT	2	9	15	10	12n	25n	50n	1.3	500m	-20	55	6	G0343	CB30
46	GB2415C	3M	10M	TFH	5.0Δ	2.0	RCT	3	20	0	9	10n	30n	10n	100m	1.5	-55	125	1	G0370	M57
47	GB2425C	3M	10M	TFH	5.0Δ	2.0	RCT	3	20	0	9	10n	30n	10n	100m	1.5	-55	125	1	G0370	M57a
48	GG3415C	3M	10M	TFH	5.0Δ	2.0	RCT	3	6	0	9	10n	30n	10n	50m	1.5	-55	125	2	G0371	M57
49	GG3425C	3M	10M	TFH	5.0Δ	2.0	RCT	3	6	0	9	10n	30n	10n	50m	1.5	-55	125	2	G0371	M57a
50	GG4415C	3M	10M	TFH	5.0Δ	2.0	RCT	5	6	0	9	10n	30n	10n	50m	1.5	-55	125	1	G0371a	M57
51	GG4425C	3M	10M	TFH	5.0Δ	2.0	RCT	5	6	0	9	10n	30n	10n	50m	1.5	-55	125	1	G0371a	M57a
52	ZSS72D	3M	20M%	MON	.40	3.2	DTL	6†	8	0.0	5.0	8.0n	10n	25n	120m	1.0 Δ	-55	125	2	G03124	TO88
53#	ZSS73A	3M	20M%	MON	.40	3.2	DTL	3	8	0	5	8.0n	10n	25n	180m	1.0 Δ	-55	125	3	G03125b	TO88
54#	ZSS73B	3M	20M%	MON	.40	3.2	DTL	3†	8	0	5	8.0n	10n	25n	180m	1.0 Δ	-55	125	3	G03125	TO88
55#	ZSS74A	3M	20M%	MON	.40	3.2	DTL	2	8	0	5	8.0n	10n	25n	240m	1.0 Δ	-55	125	4	G03125a	TO88
56#	ZSS74C	3M	20M%	MON	.40	3.2	DTL	2	8	0	5	8.0n	10n	25n	240m	1.0 Δ	-55	125	4	G03125a	TO88
57	ZSS92D	3M	20M%	MON	.40	3.2	DTL	6†	8	0.0	5.0	8.0n	10n	25n	120m	1.0 Δ	0	70	2	G03124	TO88
58#	ZSS93A	3M	20M%	MON	.40	3.2	DTL	3	8	0	5	8.0n	10n	25n	180m	1.0 Δ	0	70	3	G03125b	TO88
59#	ZSS93B	3M	20M%	MON	.40	3.2	DTL	3†	8	0	5	8.0n	10n	25n	180m	1.0 Δ	0	70	3	G03125	TO88
60#	ZSS94A	3M	20M%	MON	.40	3.2	DTL	2	8	0	5	8.0n	10n	25n	240m	1.0 Δ	0	70	4	G03125a	TO88
61#	ZSS94C	3M	20M%	MON	.40	3.2	DTL	2	8	0	5	8.0n	10n	25n	240m	1.0 Δ	0	70	4	G03125a	TO88
62#	ZSS142D	3M	20M%	MON	.40	3.2	DTL	6†	8	0.0	5.0	15n	10n	25n	120m	1.0 Δ	-55	125	2	G03124	TO88
63#	ZSS143A	3M	20M%	MON	.40	3.2	DTL	3	8	0.0	5.0	15n	10n	25n	180m	1.0 Δ	-55	125	3	G03125b	TO88
64#	ZSS143B	3M	20M%	MON	.40	3.2	DTL	3†	8	0.0	5.0	15n	10n	25n	180m	1.0 Δ	-55	125	3	G03125	TO88
65#	ZSS144A	3M	20M%	MON	.40	3.2	DTL	2	8	0.0	5.0	15n	10n	25n	240m	1.0 Δ	-55	125	4	G03125a	TO88
66#	ZSS144C	3M	20M%	MON	.40	3.2	DTL	2	8	0.0	5.0	15n	10n	25n	240m	1.0 Δ	-55	125	4	G03125a	TO88
67#	ZSS152D	3M	20M%	MON	.40	3.2	DTL	6†	8	0.0	5.0	15n	10n	25n	120m	1.0 Δ	0	70	2	G03124	TO88
68#	ZSS153A	3M	20M%	MON	.40	3.2	DTL	3	8	0.0	5.0	15n	10n	25n	180m	1.0 Δ	0	70	3	G03125b	TO88
69#	ZSS153B	3M	20M%	MON	.40	3.2	DTL	3†	8	0.0	5.0	15n	10n	25n	180m	1.0 Δ	0	70	3	G03125	TO88
70#	ZSS154A	3M	20M%	MON	.40	3.2	DTL	2	8	0.0	5.0	15n	10n	25n	240m	1.0 Δ	0	70	4	G03125a	TO88
71#	ZSS154C	3M	20M%	MON	.40	3.2	DTL	2	8	0.0	5.0	15n	10n	25n	240m	1.0 Δ	0	70	4	G03125a	TO88
72#	ZXS202D	3M	20M%	MON	.40	3.2	DTL	6†	8	0.0	5.0	8.0n	10n	25n	120m	1.0	-55	125	2	G03124	M105
73#	ZXS203A	3M	20M%	MON	.40	3.2	DTL	3	8	0.0	5.0	8.0n	10n	25n	180m	1.0	-55	125	3	G03125b	M105
74#	ZXS203B	3M	20M%	MON	.40	3.2	DTL	3†	8	0.0	5.0	8.0n	10n	25n	180m	1.0	-55	125	3	G03125b	M105
75#	ZXS204A	3M	20M%	MON	.40	3.2	DTL	2	8	0.0	5.0	8.0n	10n	25n	240m	1.0	-55	125	4	G03125b	M105
76#	ZXS204C	3M	20M%	MON	.40	3.2	DTL	2	8	0.0	5.0	8.0n	10n	25n	240m	1.0	-55	125	4	G03125a	M105
77#	ZXS212D	3M	20M%	MON	.40	3.2	DTL	6†	8	0.0	5.0	15n	10n	25n	120m	1.0 Δ	-55	125	2	G03124	M105
78#	ZXS213A	3M	20M%	MON	.40	3.2	DTL	3	8	0.0	5.0	15n	10n	25n	180m	1.0 Δ	-55	125	3	G03125b	M105
79#	ZXS213B	3M	20M%	MON	.40	3.2	DTL	3†	8	0.0	5.0	15n	10n	25n	180m	1.0 Δ	-55	125	3	G03125	M105
80#	ZXS214A	3M	20M%	MON	.40	3.2	DTL	2	8	0.0	5.0	15n	10n	25n	240m	1.0 Δ	-55	125	4	G03125a	M105
81#	ZXS214C	3M	20M%	MON	.40	3.2	DTL	2	8	0.0	5.0	15n	10n	25n	240m	1.0 Δ	-55	125	4	G03125a	M105
82#	ZXS222D	3M	20M%	MON	.40	3.2	DTL	6†	8	0.0	5.0	8.0n	10n	25n	120m	1.0 Δ	0	70	2	G03124	M105
83#	ZXS223A	3M	20M%	MON	.40	3.2	DTL	3	8	0.0	5.0	8.0n	10n	25n	180m	1.0 Δ	0	70	3	G03125b	M105
84#	ZXS223B	3M	20M%	MON	.40	3.2	DTL	3†	8	0.0	5.0	8.0n	10n	25n	180m	1.0 Δ	0	70	3	G03125b	M105
85#	ZXS224A	3M	20M%	MON	.40	3.2	DTL	2	8	0.0	5.0	8.0n	10n	25n	240m	1.0 Δ	0	70	4	G03125a	M105
86#	ZXS224C	3M	20M%	MON	.40	3.2	DTL	2	8	0.0	5.0	8.0n	10n	25n	240m	1.0 Δ	0	70	4	G03125a	M105
87#	ZXS232D	3M	20M%	MON	.40	3.2	DTL	6†	8	0.0	5.0	15n	10n	25n	120m	1.0 Δ	0	70	2	G03124	M105
88#	ZXS233A	3M	20M%	MON	.40	3.2	DTL	3	8	0.0	5.0	15n	10n	25n	180m	1.0 Δ	0	70	3	G03125b	M105
89#	ZXS233B	3M	20M%	MON	.40	3.2	DTL	3†	8	0.0	5.0	15n	10n	25n	180m	1.0 Δ	0	70	3	G03125	M105
90#	ZXS234A	3M	20M%	MON	.40	3.2	DTL	2	8	0.0	5.0	15n	10n	25n	240m	1.0 Δ	0	70	4	G03125a	M105
91#	ZXS234C	3M	20M%	MON	.40	3.2	DTL	2	8	0.0	5.0	15n	10n	25n	240m	1.0 Δ	0	70	4	G03125a	M105
92	GB2317C	3M	20M	TFH	4.0Δ	2.0	RCT	3	15	0	8	5.0n	20n	5.0n	200m	1.5	-55	125	1	G0370	M57
93	GB2327C	3M	20M	TFH	4.0Δ	2.0	RCT	3	15	0	8	5.0n	20n	5.0n	200m	1.5	-55	125	1	G0370	M57a
94	GG3317C	3M	20M	TFH	4.0Δ	2.0	RCT	3	5	0	8	5.0n	20n	5.0n	200m	1.5	-55	125	2		M57
95	GG3327C	3M	20M	TFH	4.0Δ	2.0	RCT	3	5	0	8	5.0n	20n	5.0n	200m	1.5	-55	125	2		M57a
96	GG4317C	3M	20M	TFH	4.0Δ	2.0	RCT	5	5	0	8	5.0n	20n	5.0n	200m	1.5	-55	125	1		M57
97	GG4327C	3M	20M	TFH	4.0Δ	2.0	RCT	5	5	0	8	5.0n	20n	5.0n	200m	1.5	-55	125	1		M57a
98	MC1007L	3M	80M	MON	-.75	-1.6	ECT	3	25	8	0	4.0n	7.0n	8.0n	110m†	175m	0	75	3	G03183	TO116
99	MC1008L	3M	80M	MON	-.75	-1.6	ECT	3	25	8	0	4.0n	7.0n	8.0n	75m†	175m	0	75	3	G03183a	TO116
100	MC1009L	3M	80M	MON	-.75	-1.6	ECT	3	25	5.2	0.0	4.0n	7.0n	8.0n	60m†	175m	0	75	3	G03183b	TO116
101	MC1010L	3M	80M	MON	-.75	-1.6	ECT	2	25	8	0	4.0n	7.0n	8.0n	115m†	175m	0	75	4	G03159	TO116
102	MC1011L	3M	80M	MON	-.75	-1.6	ECT	2	25	8	0	4.0n	7.0n	8.0n	95m†	175m	0	75	4	G03159a	TO116
103	MC1012L	3M	80M	MON	-.75	-1.6	ECT	2	25	8	0	4.0n	7.0n	8.0n	65m†	175m	0	75	4	G03159b	TO116
104	PL9911-21	3MG		MON	.75%	.45†	RTL	4	4	0	3	80nΔ	70n	90n	4m†		-55	125	1	G0358a	ZB155
105	PL9911-23	3MG		MON	.75%	.45†	RTL	4	4	0	3	80nΔ	70n	90n	4m†		0	75	1	G0358a	ZB155
106#	SP244B	3MS		MON	.84	.22	RTL	4	4	0.0	8.0	80n			4.0m†	320m	0	70	1	G0383	CN6a
107#	SP294B	3MS		MON	.84	.22	RTL	4	4	0	8	80n			4.0m	320m	0	70	1	G0383a	FP2
108#	SP344B	3MS		MON	1.0	.22	RTL	4	5	0	8	25n			30m	320m	0	70	1	G0383	TO78
109#	SP394B	3MS		MON	1.0	.22	RTL	4	5	0	8	25n			30m	320m	0	70	1	G0383a	FP2
110	FuL91129	3MS		MON	1.1	.25	RTL	4	7	0.0	3.6	25n			4.0m	300m	15	55	1	G0358	TO99

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	U5B991128	3S		MON			RTL	4	7	0.0	3.6	15n			20m	250m	15	55	1	G0358	TO99
2	U5B991129	3S		MON			RTL	4	7	0.0	3.6	15n			20m	250m	0	70	1	G0358	TO99
3	U5B991529	3S		MON			RTL	3	16	0.0	3.6	15n			20m	250m	0	70	2	G0377	TO99
4	U5F991128	3S		MON			RTL	4	7	0.0	3.6	15n			20m	250m	15	55	1	G0358	TO100
5	U5F991129	3S		MON			RTL	4	7	0.0	3.6	15n			20m	250m	0	70	1	G0358	TO100
6	U5F991529	3S		MON			RTL	3	16	0.0	3.6	15n			40m	250m	0	70	2	G0377	TO100
7	U8A991128	3S		MON			RTL	4	7	0.0	3.6	15n			20m	250m	15	55	1	G0358	CN34
8	U8A991129	3S		MON			RTL	4	7	0.0	3.6	15n			20m	250m	0	70	1	G0358	CN34
9	U8A991529	3S		MON			RTL	3	16	0.0	3.6	15n			40m	250m	0	70	2	G0377	CN34
10	US0911D	3S		MON			RTL	4	5	0	8	30n◪			250m		-55	125	1	G0358	TO78
11	US0911E	3S		MON			RTL	4	5	0.0	8.0	30n◪			250m		-55	125	1	G0358	TO91
12	130MY	4					DTL		5			30n			11m	700m		T 3	1	G04100	ZB46
13	140MY	4					DTL		5			30n			32m	700m		T 3	1	G04101	ZB46
14#	130MY#1	4					DTL		5			30n			11m	700m	-55	125	1	G04100	CN36
15#	130MY#2	4					DTL		5			30n			11m	700m	-55	125	1	G04100	FP14
16#	130MY#3	4					DTL		5			30n			11m	700m	0	70	1	G04100	CN36
17#	130MY#4	4					DTL		5			30n			11m	700m	0	70	1	G04100	FP14
18#	140MY#1	4					DTL		5			30n			32m	700m	-55	125	1	G04101	CN36
19#	140MY#2	4					DTL		5			30n			32m	700m	-55	125	1	G04101	FP14
20#	140MY#3	4					DTL		5			30n			32m	700m	0	70	1	G04101	CN36
21#	140MY#4	4					DTL		5			30n			32m	700m	0	70	1	G04101	FP14
22	HEPC1046P-RT	4					DTL	2	8	0.0	8.0	30n			52m				4		TO116
23	ML6400#1	4					DTL	3											1	G0447	CN21
24	ML6400#2	4					DTL	3											1	G0447	CN22
25	ML6400#3	4					DTL	3											1	G0447	FP3
26	ML6420#1	4					DTL	3											2	G0448	
27	ML6420#2	4					DTL	3											2	G0448	CN22
28	ML6420#3	4					DTL	3											2	G0448	FP3
29	ML6430#1	4					DTL	6											1	G0449	
30	ML6430#2	4					DTL	6											1	G0449	CN22
31	ML6430#3	4					DTL	6											1	G0449	FP3
32	RM205	4							4	0.0	6.0	200n			75m	550m					
33	WM501G	4					DTL	4	6	0.0	5.0				42m	750m*	-55	125	2	G04262	TO84
34	N7440J	4			2.0%	.80*	TTL	4	30	0.0	5.0	8.0n			390m%		0	70	2	G0415b	TO88
35	S54H00F	4			2.0%	.80*	TTL	2	10	0.0	5.0	6.2n					-55	125	4	G04377	TO116
36	S54H01F	4			2.0%	.80*	TTL	2	10	0.0	5.0	10n					-55	125	4	G04387	TO116
37	S54H10F	4			2.0%	.80*	TTL	3	10	0.0	5.0	6.3n			165m%		-55	125	3	G04377a	TO116
38	S54H20F	4			2.0%	.80*	TTL	4	10	0.0	5.0	7.0n			110m%		-55	125	2	G04377b	M105r
39	S54H22F	4			2.0%	.80*	TTL	4	10	0.0	5.0	10n			110m%		-55	125	2	G04387b	M105r
40	S54H30F	4			2.0%	.80*	TTL	8	10	0.0	5.0	8.9n			55m%		-55	125	1	G04377g	M105r
41	S5440J	4			2.0%	.80*	TTL	4	30	0.0	5.0	8.0n			412m%		-55	125	2	G0415b	TO88
42	SFC101	4			3.9	.50	DTL	5Δ		0.0	8.0	35n			35m	750m	0	75	1	G0485b	CN39
43	SFC102	4			3.9	.50	DTL	3		0.0	8.0	35n			35m	750m	0	75	1	G04114a	CN39
44	SFC103	4			3.9	.50	DTL	6Δ		0.0	8.0	35n			35m	750m	0	75	1	G04273	CN39
45	FuL93029#1	4		MON			DTL	5	8	0.0	4.0	25n			5.0m	1.0	0	70	2	G0492f	CN29
46	FuL93029#2	4		MON			DTL	5Δ	8	0.0	4.0	25n			5.0m	1.0	0	70	2	G0492f	FP28
47	FuL93229	4		MON			DTL	5Δ	25	0.0	4.0	35n			25m	1.0	0	70	2	G04154a	
48	FuL94429	4		MON			DTL	5Δ	27			40n			20m	1.0	0	70	2	G04154	
49	FuL94629	4		MON			DTL	2	8	0.0	4.0	25n			5.0m	1.0	0	70	4	G0492g	ZB6
50	FuL96229	4		MON			DTL	3	8			25n			5.0m	1.0	0	70	3	G0492h	ZB6
51	RG3200P	4		MON			DTL	8	11	0.0	5	6.5n			22m†	1.1	-55	125	1		M105k
52	RG3202P	4		MON			DTL	8	9	0.0	5	6.5n			22m†	1.1	0	75	1		M105k
53	RG3220P	4		MON			DTL	2	11	0.0	5.0	4.5n			88m†	1.1	-55	125	4		M105k
54	RG3222P	4		MON			DTL	2	9	0.0	5	4.5n			88m†	1.1	0	75	4		M105k
55	RG3240P	4		MON			DTL	4	11	0.0	5	4.5n			44m†	1.1	-55	125	2		M105k
56	RG3242P	4		MON			DTL	4	9	0.0	5	4.5n			44m†	1.1	0	75	2		M105k
57	RG3260P	4		MON			DTL	8	11	0.0	5	5.5n			22m†	1.1	-55	125	1		M105k
58	RG3262P	4		MON			DTL	8	9	0.0	5	5.5n			22m†	1.1	0	75	1		M105k
59	RG3320P	4		MON			DTL	3	11	0.0	5	4.5n			66m†	1.1	-55	125	3		M105k
60	RG3322P	4		MON			DTL	3	9	0.0	5.0	4.5n			66m†	1.1	0	75	3		M105k
61	RG3420P	4		MON			DTL	4	11	0.0	5	4.5n			44m†	1.1	-55	125	2		M105k
62	RG3422P	4		MON			DTL	4	9	0.0	5	4.5n			44m†	1.1	0	75	2		M105k
63	RG3430P	4		MON			DTL	8	11	0.0	5	5.5n			22m†	1.1	-55	125	1		M105k
64	RG3432P	4		MON			DTL	8	9	0.0	5	5.5n			22m†	1.1	0	75	1		M105k
65#	SFC760E	4		MON			DTL	5Δ	10	0	15	120n				5.0	0	70	2		TO116
66#	SFC770E	4		MON			DTL	3Δ	10	0	15	120n				5.0	0	70	2		TO116
67#	SFC771E	4		MON			DTL	3Δ	10	0	15	120n				1.0	0	70	2		TO116
68	ST616A	4		MON			DTL	5Δ	5	0.0	6.0	30n			40m	1.0 Δ	0	70	2	G0489j	M105
69	ST670A	4		MON			DTL	3	5	0.0	6.0	30n			60m	1.0 Δ	0	70	3	G0489h	M105
70	ST680A	4		MON			DTL	2	5	0.0	6.0	30n			80m	1.0 Δ	0	70	4	G0489g	M105
71	WC214G#1	4		MON			DTL	6	6†	0.0	6.0				9.5m	550m	0	75	1	G0458	TO70
72	WC214G#2	4		MON			DTL	6	6†	0.0	6.0				9.5m	550m	0	75	1	G0458	TO84
73	WC214T#1	4		MON			DTL	6	6†	0.0	6.0				9.5m	550m	0	75	1	G0458	TO70
74	WC214T#2	4		MON			DTL	6	6†	0.0	6.0				9.5m	550m	0	75	1	G0458	TO84
75	WC221G	4		MON			DTL	3	6†	0.0	6.0				19m	550m	0	75	1	G0462	TO84
76	WC241G	4		MON			DTL	4	6†	0	6				19m	550m	0	75	1		TO84
77	WM210G	4		MON			DTL	3	22†	0	8				60m†	550m	-55	125	2	G04205a	TO84
78	WM210Q	4		MON			DTL	3	22†	0	8				60m†	550m	-55	125	2	G04205a	TO91
79	WM210T	4		MON			DTL	3	22†	0	8				60m†	550m	-55	125	2	G04205a	CN18
80	WM211Q	4		MON			DTL	4	11	0.0	6.0				19m	550m*	-55	125	1	G0461	TO91
81	WM221Q	4		MON			DTL	3	11	0.0	6.0				19m	550m*	-55	125	1	G0462	TO91
82	WM224Q	4		MON			DTL	8	11	0.0	6.0				9.5m	550m*	-55	125	1	G0459	TO91
83	WM231Q	4		MON			DTL	4	11	0.0	6.0				19m	550m*	-55	125	1	G0463	TO91
84	WM231T	4		MON			DTL	4	11	0.0	6.0				19m	550m*	-55	125	1	G0463	TO70
85	WM241Q	4		MON			DTL	4	10	0.0	6.0				19m	550m*	-55	125	1	G0464	TO91
86	WM241T	4		MON			DTL	4	10	0.0	6.0				19m	550m*	-55	125	1	G0464	TO70
87	WM261Q	4		MON			DTL	4	10	0.0	6.0				19m	550m*	-55	125	1	G0463	TO91
88	WM261T	4		MON			DTL	4	10	0.0	6.0				19m	550m*	-55	125	1	G0463	TO70
89	WM296G	4		MON			DTL	1	10	0	6				66m	550m*	-55	125	6	G0468a	TO84
90	WM506G	4		MON			DTL	3	10						19m				3	G0469	TO84
91	WM510	4		MON			DTL	5	27	0.0	5.0				10m	750m*	-55	125	1	B0440	TO84
92	WM510G	4		MON			DTL	5	27	0.0	6.0				20m	550m*	-55	125	2	G04205b	TO84
93	WM556G	4		MON			DTL	3	12	0.0	5.0				10m	750m*	-55	125	3	G0469	TO84
94	WS811Q	4		MON			DTL	3	10†	0.0	4.0				50mΔ	250m	-55	125	1	G0470	FP37
95	WS817Q	4		MON			DTL	3	25†	0.0	4.0				15m	250m	-55	125	1	G04205	FP37
96	RD200	4		MON		.25	DTL	5Δ	12	0.0	5.0	7.5n			10m	1.2	-55	125	2	G04172	TO84
97	RD200-1	4		MON		.25	DTL	5Δ	12	0.0	5.0	7.5n			10m	1.2	-55	125	2	G04172	CN14
98	NE8415A	4		MON		.35*†	DTL	5		0	6	85n		75n	40m	1.4	0	75	2	G04325b	TO116
99	NE8415J	4		MON		.35*†	DTL	5		0	6	85n		75n	40m	1.4	0	75	2	G04325c	TO88
100	NE8417A	4		MON		.35*†	DTL	4Δ		0	6	85n		75n	40m	1.4	0	75	2	G04325	TO116
101	NE8417J	4		MON		.35*†	DTL	4Δ		0	6	85n		75n	40m	1.4	0	75	2	G04325a	TO88
102	SE8415A	4		MON		.35*†	DTL	5		0	6	85n		75n	40m	1.4	-55	125	2	G04325b	TO116
103	SE8415J	4		MON		.35*†	DTL	5		0	6	85n		75n	40m	1.4	-55	125	2	G04325c	TO88
104	SE8417A	4		MON		.35*†	DTL	4Δ		0	6	85n		75n	40m	1.4	-55	125	2	G04325	TO116
105	SE8417J	4		MON		.35*†	DTL	4Δ		0	6	85n		75n	40m	1.4	-55	125	2	G04325a	TO88
106#	MMG162	4		MON		.40†*	TTL	2	12	0.0	5.0		8.0n		54m†	900m	0	75	3	G04330a	M75
107#	MMG163	4		MON		.40†*	TTL	2	6	0.0	5.0		8.0n		54m†	900m	0	75	3	G04330a	M75
108	H100L	4		MON		1.4*†		5Δ		0.0	30	5.0u			210m		-55	125	2	G04390	TO86
109	H100P	4		MON		1.4*†		5Δ		0.0	30	5.0u			210m		-55	125	2	G04390	TO116

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	H101L	4		MON		1.4*†		2		0.0	30	5.0u			429m		-55	125	4	G04390a	TO86
2	H101P	4		MON		1.4*†		2		0.0	30	5.0u			420m		-55	125	4	G04390a	TO116
3	G12002	4		MON	.30	1.7	DTL	5	5	0.0	4.0	100n			1.0m	800m	-55	125	1	G04127	CN4
4	G12003	4		MON	.30	1.7	DTL	6	5	0.0	4.0	100n			1.0m	800m	-55	125	1	G04128	CN4
5	G42002	4		MON	.30	1.7	DTL	6	5	0.0	4.0	100n			1.0m	800m	-55	125	1	G04127	TO91
6	G42003	4		MON	.30	1.7	DTL	6	5	0.0	4.0	100n			1.0m	800m	-55	125	1	G04128	TO91
7	SN5161	4		MON	.30	2.3	RCT	2	5	0.0	6.0	55n	70n	930n	8.0m	200m	-55	125	3	G043t	TO84
8	PL9987	4		MON	.85%	.42†	TTL	3	4	0	3	110nΔ			.44m†		-55	125	2	G04261	TO91
9	PL986	4		MON	1.0	.20	TTL	2	20	0.0	3.0	80n			2.3m		-55	125	2	G04178	FP2
10	WM201G	4		MON	1.0*	1.8%	DTL	3	11†	0	10				38m†	550m*	-55	125	2	G0428	TO84
11	WM201Q	4		MON	1.0*	1.8%	DTL	3	11†	0	10				38m†	550m*	-55	125	2	G0428	TO91
12	WM201T	4		MON	1.0*	1.8%	DTL	3	11†	0	10				38m†	550m*	-55	125	2	G0428	CN18
13	WM204G	4		MON	1.0*	1.8%	DTL	5Δ	11†	0	10				9.5m†	550m*	-55	125	1	G0428e	TO84
14	WM204Q	4		MON	1.0*	1.8%	DTL	5Δ	11†	0.0	10				9.5m†	550m*	-55	125	1	G0428e	TO91
15	WM204T	4		MON	1.0*	1.8%	DTL	5Δ	11†	0	10				9.5m†	550m*	-55	125	1	G0428e	TO78
16	WM206G	4		MON	1.0*	1.8%	DTL	3†	11†	0.0	10				85m†	550m*	-55	125	3	G0428k	TO84
17	WM211G	4		MON	1.0*	1.8%	DTL	4	11†	0	10				38m†	550m*	-55	125	2	G0428a	TO84
18	WM211T	4		MON	1.0*	1.8%	DTL	4	11†	0	10				38m†	550m*	-55	125	2	G0428a	CN18
19	WM214G	4		MON	1.0*	1.8%	DTL	7Δ	11†	0	10				9.5m†	550m*	-55	125	1	G0428m	TO84
20	WM214Q	4		MON	1.0*	1.8%	DTL	7Δ	11†	0	10				9.5m†	550m*	-55	125	1	G0428m	TO91
21	WM214T	4		MON	1.0*	1.8%	DTL	7Δ	11†	0	10				9.5m†	550m*	-55	125	1	G0428m	CN18
22	WM216G	4		MON	1.0*	1.8%	DTL	3	11†	0	10				85m†	550m*	-55	125	3	G0428j	TO84
23	WM221G	4		MON	1.0*	1.8%	DTL	4Δ	11†	0	10				38m†	550m*	-55	125	2	G0428d	TO84
24	WM221T	4		MON	1.0*	1.8%	DTL	4Δ	11†	0	10				38m†	550m*	-55	125	2	G0428d	CN18
25	WM224G	4		MON	1.0*	1.8%	DTL	9Δ	11†	0	10				9.5m†	550m*	-55	125	1	G0428h	TO84
26	WM224T	4		MON	1.0*	1.8%	DTL	10Δ	11†	0	10				9.5m†	550m*	-55	125	1	G0428g	CN18
27	WM231G	4		MON	1.0*	1.8%	DTL	5Δ	11†	0	10				38m†	550m*	-55	125	2	G0428c	TO84
28	WM226G	4		MON	1.0*	2.0%	DTL	3†	16	0.0	10				13m†	550m*	-55	125	3	G0464b	TO84
29	WM234G	4		MON	1.0*	2.0%	DTL	10Δ	16	0	10				15m†	550m*	55	125	1	G0469c	TO84
30	WM236G	4		MON	1.0*	2.0%	DTL	3	16	0	10				13m†	550m*	55	125	3	G0464g	TO84
31	WM241G	4		MON	1.0*	2.0%	DTL	4	16	0	10				42m†	550m*	55	125	2	G0464c	TO84
32	WM246G	4		MON	1.0*	2.0%	DTL	2	11†	0	10				152m†	550m*	-55	125	4	G0428n	TO84
33	WM261G	4		MON	1.0*	2.0%	DTL	5Δ	16	0	10				42m†	550m*	-55	125	2	G0464d	TO84
34	WM266G	4		MON	1.0*	2.0%	DTL	2	16	0	10				240m†	550m*	-55	125		G0464e	TO84
35	WM286G	4		MON	1.0*	2.0%	DTL	1	11†	0	10				180m†	550m*	-55	125	6	G0428t	TO84
36	PL987	4		MON	1.7	.20	TTL	3	4	0.0	3.0	75n			430u		-55	125	2	G04177	FP1
37	NE471J	4		MON	1.7	.80	TTL	3	8	0	6	75n		75n	30m	1.0 Δ	0	70	3	G04342	TO88
38	NE481J	4		MON	1.7	.80	TTL	2	8	0	6	75n		75n	40m	1.0 Δ	0	70	3	G04342a	TO88
39	SE471J	4		MON	1.7	.80	TTL	3	8	0	6	75n		75n	30m	1.0 Δ	-55	125	3	G04342	TO88
40	SE481J	4		MON	1.7	.80	TTL	2	8	0	6	75n		75n	40m	1.0 Δ	-55	125	4	G04342a	TO88
41	9002-1-3L	4		MON	1.7%	.90*	TTL	2	11	0.0	5.0	10nΔ			44m†		-55	125	4	G04345	FP47a
42	9002-1-6B	4		MON	1.7%	.90*	TTL	2	11	0.0	5.0	10nΔ			44m†		-55	125	4	G04345	M153a
43	9003-1-3L	4		MON	1.7%	.90*	TTL	3	11	0.0	5.0	10nΔ			33m†		-55	125	3	G04345a	FP47a
44	9003-1-6B	4		MON	1.7%	.90*	TTL	3	11	0.0	5.0	10nΔ			33m†		-55	125	3	G04345a	M153a
45	9004-1-3L	4		MON	1.7%	.90*	TTL	4	11	0.0	5.0	10nΔ			22m†		-55	125	2	G04345b	FP47a
46	9004-1-6B	4		MON	1.7%	.90*	TTL	4	11	0.0	5.0	10nΔ			22m†		-55	125	2	G04345b	M153a
47	9007-1-3L	4		MON	1.7%	.90*	TTL	8	11	0.0	5.0	10nΔ			11m†		-55	125	1	G04345c	FP47a
48	9007-1-6B	4		MON	1.7%	.90*	TTL	8	11	0.0	5.0	10nΔ			11m†		-55	125	1	G04345c	M153a
49	9009-1-3L	4		MON	1.7%	.90*	TTL	4	33	0.0	5.0	15nΔ			22m†		-55	125	2	G04345b	FP47a
50	9009-1-6B	4		MON	1.7%	.90*	TTL	4	33	0.0	5.0	15nΔ			22m†		-55	125	2	G04345b	M153a
51	9041-1-3I	4		MON	1.7%	.90*	DTL	3	10	0.0	5.0	230n			2.0m†	1.0 †	-55	125	2	B0620	FP28c
52	9041-1-6A	4		MON	1.7%	.90*	DTL	3	10	0.0	5.0	230n			2.0m†	1.0 †	-55	125	2	B0620	M157
53	9042-1-3I	4		MON	1.7%	.90*	DTL	4Δ	10	0.0	5.0	230n			2.0m†	1.0 †	-55	125	2	B0621	FP28c
54	9042-1-6A	4		MON	1.7%	.90*	DTL	4Δ	10	0.0	5.0	230n			2.0m†	1.0 †	-55	125	2	B0621	M157
55	9046-1-6A	4		MON	1.7%	.90*	DTL	2	10	0.0	5.0	230n			4.0m†	1.0 †	-55	125	4	G04394	M157
56	9047-1-3I	4		MON	1.7%	.90*	DTL	3	10	0.0	5.0	230n			3.0m†	1.0 †	-55	125	3	G04394	FP28c
57	9047-1-6A	4		MON	1.7%	.90*	DTL	3	10	0.0	5.0	230n			3.0m†	1.0 †	-55	125	3	G04394	M157
58	NE470J	4		MON	1.7	.90	TTL	3	8	0	6	43n		75n	30m	1.0 Δ	0	70	3	G04260a	TO88
59	SE470J	4		MON	1.7	.90	TTL	3	8	0	6	43n		75n	30m	1.0 Δ	-55	125	3	G04260a	TO88
60	SG320	4		MON	1.7%	1.1*	TTL	3	11	0	5	6.0n			66m	1.0	-55	125	3	G0417b	ZB164
61	SG321	4		MON	1.7%	1.1*	TTL	3	6	0	5	6.0n			66m	1.0	-55	125	3	G0417b	ZB164
62	SG322	4		MON	1.7%	1.1*	TTL	3	9	0	5	6.0n			66m	1.0	0	75	3	G0417b	ZB164
63	SG323	4		MON	1.7%	1.1*	TTL	3	5	0	5	6.0n			66m	1.0	0	75	3	G0417b	ZB164
64	NE415J	4		MON	1.8	.80	DTL	5	8	0	6	75n		75n	12m	1.0 Δ	0	70	2	G04325c	TO88
65	NE417J	4		MON	1.8	.80	DTL	4Δ	8	0	6	75n		75n	40m	1.0 Δ	0	70	2	G04325a	TO88
66	SE415J	4		MON	1.8	.80	DTL	5	8	0	6	75n		75n	12m	1.0 Δ	-55	125	2	G04325c	TO88
67	9002-9-3L	4		MON	1.8%	.85*	TTL	2	10	0.0	5.0	13nΔ			44m†		0	75	4	G04345	FP47a
68	9002-9-6B	4		MON	1.8%	.85*	TTL	2	10	0.0	5.0	13nΔ			44m†		0	75	4	G04345	M153a
69	9003-9-3L	4		MON	1.8%	.85*	TTL	3	10	0.0	5.0	13nΔ			33m†		0	75	3	G04345a	FP47a
70	9003-9-6B	4		MON	1.8%	.85*	TTL	3	10	0.0	5.0	13nΔ			33m†		0	75	3	G04345a	M153a
71	9004-9-3L	4		MON	1.8%	.85*	TTL	4	10	0.0	5.0	13nΔ			22m†		0	75	2	G04345b	FP47a
72	9004-9-6B	4		MON	1.8%	.85*	TTL	4	10	0.0	5.0	13nΔ			22m†		0	75	2	G04345b	M153a
73	9007-9-3L	4		MON	1.8%	.85*	TTL	8	10	0.0	5.0	13nΔ			11m†		0	75	1	G04345c	FP47a
74	9007-9-6B	4		MON	1.8%	.85*	TTL	8	10	0.0	5.0	13nΔ			11m†		0	75	1	G04345c	M153a
75	9009-9-3L	4		MON	1.8%	.85*	TTL	4	30	0.0	5.0	17nΔ			22m†		0	75	2	G04345b	FP47a
76	9009-9-6B	4		MON	1.8%	.85*	TTL	4	30	0.0	5.0	17nΔ			22m†		0	75	2	G04345b	M153a
77	9043-1-3I	4		MON	1.8%	.85*	DTL	4Δ	10	0.0	5.0	230n			2.0m†	1.0 †	-55	125	2	G04395	FP28c
78	9043-1-6A	4		MON	1.8%	.85*	DTL	4Δ	10	0.0	5.0	230n			2.0m†	1.0 †	-55	125	2	G04395	M157
79	9044-1-3I	4		MON	1.8%	.85*	DTL	4Δ	10	0.0	5.0	230n			2.0m†	1.0 †	-55	125	2	G04394	FP28c
80	9044-1-6A	4		MON	1.8%	.85*	DTL	4Δ	10	0.0	5.0	230n			2.0m†	1.0 †	-55	125	2	G04394	M157
81	9046-1-3I	4		MON	1.8%	.85*	DTL	2	10	0.0	5.0	230n			4.0m†	1.0 †	-55	125	4	G04394	FP28c
82	500BH	4		MON	1.8%	1.0*	TTL	4	6	0	6.8	180n			2.0m		-55	125	2	G04317	TO86
83	501BH	4		MON	1.8%	1.0*	TTL	2	6	0	6.8	180n			4.0m		-55	125	4	G04317d	TO86
84	503BH	4		MON	1.8%	1.0*	TTL	3	6	0	6.8	180n			3.0m		-55	125	3	G04317f	TO86
85	504BH	4		MON	1.8%	1.0*	TTL	4	6	0	6.8	140n			2.4m		-55	125	2	G04317a	TO86
86	505BH	4		MON	1.8%	1.0*	TTL	2	6	0	6.8	140n			4.8m		-55	125	4	G04317e	TO86
87	507BH	4		MON	1.8%	1.0*	TTL	3	6	0	6.8	140n			3.6m		-55	125	3	G04317g	TO86
88	530BH	4		MON	1.8%	1.0*	TTL	4	6	0	6.8	75n			4.4m		-55	125	2	G04317	TO86
89	531BH	4		MON	1.8%	1.0*	TTL	2	6	0	6.8	75n			8.8m		-55	125	4	G04317d	TO86
90	533BH	4		MON	1.8%	1.0*	TTL	3	6	0	6.8	75n			6.6m		-55	125	3	G04317f	TO86
91	534BH	4		MON	1.8%	1.0*	TTL	4	7	0	6.8	60n			6.0m		-55	125	2	G04317a	TO86
92	535BH	4		MON	1.8%	1.0*	TTL	2	7	0	6.8	60n			12m		-55	125	4	G04317e	TO86
93	537BH	4		MON	1.8%	1.0*	TTL	3	7	0	6.8	60n			9.0m		-55	125	3	G04317g	TO86
94	540BH	4		MON	1.8%	1.0*	TTL	5Δ	17	0	6.8	70n			16m		-55	125	2	G04321	TO86
95	541BH	4		MON	1.8%	1.0*	TTL	5Δ	17	0	6.8	70n			12m		-55	125	2	G04321a	TO86
96	543BH	4		MON	1.8%	1.0*	TTL	5Δ	7	0	6.8	85n			4.6m		-55	125	2	G04317b	TO86
97	544BH	4		MON	1.8%	1.0*	TTL	5Δ	7	0	6.8	75n			6.0m		-55	125	2	G04317c	TO86
98	547BH	4		MON	1.8%	1.0*	TTL	5Δ	45	0.0	6.8	60n			19m		-55	125	2	G04317c	TO86
99	548BH	4		MON	1.8%	1.0*	TTL	5Δ	45	0	6.8	60n			16m		-55	125	2	G04317b	TO86
100	570BH	4		MON	1.8%	1.0*	TTL	4	7	0.0	6.8	25n			11m		-55	125	2	G04317	TO86
101	571BH	4		MON	1.8%	1.0*	TTL	2	7	0.0	6.8	25n			22m		-55	125	4	G04317d	TO86
102	573BH	4		MON	1.8%	1.0*	TTL	3	7	0.0	6.8	25n			16m		-55	125	3	G04317f	TO86
103	574BH	4		MON	1.8%	1.0*	TTL	4	7	0.0	6.8	25n			13m		-55	125	2	G04317a	TO86
104	575BH	4		MON	1.8%	1.0*	TTL	2	7	0.0	6.8	25n			27m		-55	125	4	G04317c	TO86
105	577BH	4		MON	1.8%	1.0*	TTL	3	7	0.0	6.8	25n			20m		-55	125	3	G04317g	TO86
106	580BH	4		MON	1.8%	1.0*	TTL	5Δ	33	0	6.8	45n			44m		-55	125	2	G04320	TO86
107	583BH	4		MON	1.8%	1.0*	TTL	5Δ	7	0	6.8	30n			11m		-55	125	2	G04317b	TO86
108	584BH	4		MON	1.8%	1.0*	TTL	5Δ	7	0.0	6.8	30n			13m		-55	125	2	G04317c	TO86
109	587BH	4		MON	1.8%	1.0*	TTL	5Δ	36	0	6.8	55n			34m		-55	125	2	G04317h	TO86
110	SW930-1D	4		MON	1.8%	1.2*	DTL	5Δ	8†	0.0	8.0	30n			16m	1.0	-55	125	2	G0492	TO85

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	SW930-2D	4		MON	1.8%	1.2*	DTL	5Δ	8†	0.0	8.0	30n			16m	1.0	-55	125	2	G0492	TO85
2	SW932-1D	4		MON	1.8%	1.2*	DTL	5Δ	25†	0.0	8.0	35n			60m	1.0	0	75	2	G04207a	TO85
3	SW932-2D	4		MON	1.8%	1.2*	DTL	5Δ	25†	0.0	8.0	35n			60m	1.0	0	75	2	G04207a	TO85
4	SW944-1D	4		MON	1.8%	1.2*	DTL	5Δ	27†	0.0	8.0	25n			44m	1.0	-55	125	2	G04154	TO85
5	SW944-2D	4		MON	1.8%	1.2*	DTL	5Δ	27†	0.0	8.0	25n			44m	1.0	0	75	2	G04154	TO85
6	SW946-1D	4		MON	1.8%	1.2*	DTL	2	8†	0.0	8.0	30n			32m	1.0	-55	125	4	G04153a	TO85
7	SW946-2D	4		MON	1.8%	1.2*	DTL	2	8†	0.0	8.0	30n			32m	1.0	0	75	4	G04153a	TO85
8	SW949-1D	4		MON	1.8%	1.2*	DTL	2	7†	0.0	8.0	20n			48m	1.0	-55	125	4	G04153a	TO85
9	SW949-2D	4		MON	1.8%	1.2*	DTL	2	7†	0.0	8.0	20n			48m	1.0	0	75	4	G04153a	TO85
10	SW961-1D	4		MON	1.8%	1.2*	DTL	5Δ	7†	0.0	8.0	20n			24m	1.0	-55	125	2	G0492	TO85
11	SW961-2D	4		MON	1.8%	1.2*	DTL	5Δ	7†	0.0	8.0	20n			24m	1.0	0	75	2	G0492	TO85
12	SW962-1D	4		MON	1.8%	1.2*	DTL	3	8†	0.0	8.0	30n			24m	1.0	-55	125	3	G0492b	TO85
13	SW962-2D	4		MON	1.8%	1.2*	DTL	3	8†	0.0	8.0	30n			24m	1.0	0	75	3	G0492b	TO85
14	SW963-1D	4		MON	1.8%	1.2*	DTL	3	7†	0.0	8.0	20n			36m	1.0	-55	125	3	G0492b	TO85
15	SW963-2D	4		MON	1.8%	1.2*	DTL	3	7†	0.0	8.0	20n			36m	1.0	0	75	3	G0492b	TO85
16	SN7400P	4		MON	1.9%	1.1*	TTL	2	10	0.0	5.5	13n			20m	400m	0	75	4		M100
17	SN7410P	4		MON	1.9%	1.1*	TTL	3	10	0.0	5.5	13n			15m	400m	0	70	3		M100
18	SN7420P	4		MON	1.9%	1.1*	TTL	4	10	0.0	5.5	13n			10m	400m	0	70	2		M100
19	SN15830L	4		MON	1.9%	1.1*	DTL	4Δ	8	0.0	5.0	25n			5.0m		0	75	2		TO100
20	SN74930	4		MON	1.9%	1.1*	TTL	4	10	0	5.5	13n			10m	400m	0	75	2	G0414d	ZB6
21	SN74946	4		MON	1.9%	1.1*	TTL	2	10	0	5.5	13n			10m	400m	0	75	4	G0414e	ZB6
22	SN74962	4		MON	1.9%	1.1*	TTL	3	10	0	5.5	13n			15m	400m	0	75	3	G0414f	ZB6
23	SN54L01J	4		MON	2.0%	.60*	TTL	2	10	0.0	5.0	90nΔ			1.0m†	1.0 Δ	-55	125	4	G04425c	M157b
24	SN54L01N	4		MON	2.0%	.60*	TTL	2	10	0.0	5.0	90nΔ			1.0m†	1.0 Δ	-55	125	4	G04425c	M126e
25	SN74L01J	4		MON	2.0%	.60*	TTL	2	10	0.0	5.0	90nΔ			1.0m†	1.0 Δ	0	70	4	G04425c	M157b
26	SN74L01N	4		MON	2.0%	.60*	TTL	2	10	0.0	5.0	90nΔ			1.0m†	1.0 Δ	0	70	4	G04425c	M126e
27	JANM38510/02003BCC																				
		4		MON	2.0%	.70*	TTL	3	10	0.0	5.5	90nΔ			12m		-55	125	3	G04440b	M314
28	SN54L00R	4		MON	2.0	.70*	TTL	2	10	0.0	8.0	33n			1.0mΔ	1.0 Δ	-55	125	4	G0414	TO84
29	SN54L10R	4		MON	2.0	.70*	TTL	3	10	0.0	8.0	33n			1.0mΔ	1.0 Δ	-55	125	3	G0414a	TO84
30	SN54L20R	4		MON	2.0	.70*	TTL	4	10	0.0	8.0	33n			1.0mΔ	1.0 Δ	-55	125	2	G0414b	TO84
31	SN54L30R	4		MON	2.0%	.70*	TTL	8	10	0	8	53n%			1m†	1.0 Δ	-55	125	1	G0414c	TO84
32	SN74L00R	4		MON	2.0	.70*	TTL	2	10	0.0	8.0	33n			1.0mΔ	1.0 Δ	0	70	4	G0414	TO84
33	SN74L10R	4		MON	2.0	.70*	TTL	3	10	0.0	8.0	33n			1.0mΔ	1.0 Δ	0	70	3	G0414a	TO84
34	SN74L20R	4		MON	2.0	.70*	TTL	4	10	0.0	8.0	33n			1.0mΔ	1.0 Δ	0	70	2	G0414b	TO84
35	SN74L30R	4		MON	2.0%	.70*	TTL	8	10	0	8	53n%			1m†	1.0 Δ	0	70	1	G0414c	TO84
36#	5400-1-6A	4		MON	2.0%	.80*	TTL	2	10	0.0	5.0	40n%			40m†		-55	125	4	G04358f	M157
37#	5401-1-6A	4		MON	2.0%	.80*	TTL	2	10	0.0	5.0	40n%			40m†		-55	125	4	G04387a	M157
38#	5403-1-6A	4		MON	2.0%	.80*	TTL	2	10	0.0	5.0	45nΔ			40m†	1.0 Δ	-55	125	4	G04399	M157
39#	5410-1-6A	4		MON	2.0%	.80*	TTL	3	10	0.0	5.0	30n%			30m†		-55	125	3	G04358h	M157
40#	5420-1-6A	4		MON	2.0%	.80*	TTL	4	10	0.0	5.0	20n%			20m†		-55	125	2	G04358k	M157
41#	5430-1-6A	4		MON	2.0%	.80*	TTL	8	10	0.0	5.0	10n%			10m†		-55	125	1	G04358n	M157
42#	5440-1-6A	4		MON	2.0%	.80*	TTL	4	10	0.0	5.0	20n%			20m†		-55	125	2	G04388a	M157
43#	7400-9-6A	4		MON	2.0%	.80*	TTL	2	10	0.0	5.0	40n%			40m†		0	70	4	G04358f	M157
44	7400N	4		MON	2.0%	.80*	TTL	2	10	0.0	7.0	29nΔ			10mΔ	1.0 Δ	0	70	4	G0418b	TO116
45#	7401-9-6A	4		MON	2.0%	.80*	TTL	2	10	0.0	5.0	40n%			40m†		0	70	4	G04387a	M157
46#	7403-9-6A	4		MON	2.0%	.80*	TTL	2	10	0.0	5.0	45nΔ			40m†	1.0 Δ	0	70	4	G04399	M157
47#	7410-9-6A	4		MON	2.0%	.80*	TTL	3	10	0.0	5.0	30n%			30m†		0	70	3	G04358h	M157
48	7410N	4		MON	2.0%	.80*	TTL	3	10	0.0	7.0	29nΔ			10mΔ	1.0 Δ	0	70	3	G043b	TO116
49#	7420-9-6A	4		MON	2.0%	.80*	TTL	4	10	0.0	5.0	20n%			20m†		0	70	2	G04358k	M157
50	7420N	4		MON	2.0%	.80*	TTL	4	10	0.0	7.0	29nΔ			10mΔ	1.0 Δ	0	70	2	G043s	TO116
51#	7430-9-6A	4		MON	2.0%	.80*	TTL	8	10	0.0	5.0	10n%			10m†		0	70	1	G04358n	M157
52	7430N	4		MON	2.0%	.80*	TTL	8	10	0.0	7.0	29nΔ			10mΔ	1.0 Δ	0	70	1		TO116
53#	7440-9-6A	4		MON	2.0%	.80*	TTL	4	10	0.0	5.0	20n%			20m†		0	70	2	G04388a	M157
54	JANM38510/00303BAB																				
		4		MON	2.0%	.80*	TTL	2	30	0.0	5.5	25nΔ			400m		-55	125	4	G0415a	FP52d
55	NC400HN	4		MON	2.0%	.80*	TTL	2	10	0.0	7.0	6.0n%			88m†	1.0 Δ	0	70	4	G0415a	M75a
56	NC400N	4		MON	2.0%	.80*	TTL	2	10	0.0	8.0	13n%			10m†	1.0	0	70	4	G0414	M126
57	NC400PM	4		MON	2.0%	.80*	TTL	2	10	0	7	22n%			40m	1.0	0	70	4	G0414	TO84
58	NC410N	4		MON	2.0%	.80*	TTL	3	10	0.0	8.0	13n%			10m†	1.0	0	70	3	G04233a	M126
59	NC410PM	4		MON	2.0%	.80*	TTL	3	10	0.0	7.0	22n%			30m	1.0	0	70	3	G0414a	TO84
60	NC420HN	4		MON	2.0%	.80*	TTL	2	10	0.0	7.0	6.0n%			44m†	1.0 Δ	0	70	4	G0415b	M75a
61	NC420N	4		MON	2.0%	.80*	TTL	4	10	0.0	8.0	13n%			10m†	1.0	0	70	2	G0414b	M126
62	NC420PM	4		MON	2.0%	.80*	TTL	4	10	0.0	7.0	22n%			20m	1.0	0	70	2	G0414b	TO84
63	NC430N	4		MON	2.0%	.80*	TTL	8	10	0.0	8.0	13n%			10m†	1.0	0	70	1	G0414c	M126
64	NC430PM	4		MON	2.0%	.80*	TTL	8	10	0.0	7.0	22n%			10m	1.0	0	70	1	G0414c	TO84
65	NC440N	4		MON	2.0%	.80*	TTL	4	30	0.0	8.0	13n%			10m†	1.0	0	70	2	G0415	M126
66	NC440PM	4		MON	2.0%	.80*	TTL	4	10	0.0	7.0	22n%			40m	1.0	0	70	2	G0415	TO84
67	NE855K	4		MON	2.0	.80	TTL	4	1	0	6	23n			86m†	1.0 Δ	0	70	2	G04303	CN17
68	PD7400	4		MON	2.0%	.80*	TTL	2	10	0.0	5.0	29nΔ			10mΔ	1.0	0	75	4	G0414	M105v
69	PD7401	4		MON	2.0%	.80*	TTL	2	10	0.0	5.0	45nΔ			10mΔ	1.0	0	75	4	G04233a	M105v
70	PD7403	4		MON	2.0%	.80*	TTL	2	10	0.0	7.0	30n%			10mΔ	1.0	0	75	4	G0414a	M105v
71	PD7410	4		MON	2.0%	.80*	TTL	3	10	0.0	5.0	29nΔ			10mΔ	1.0	0	75	3	G0415	M105v
72	PD7420	4		MON	2.0%	.80*	TTL	4	10	0.0	5.0	29nΔ			10mΔ	1.0	0	75	2	G0414b	M105v
73	PD7430	4		MON	2.0%	.80*	TTL	8	10	0.0	5.0	29nΔ			10m†	1.0	0	75	1	G0414c	M105v
74	PD7440	4		MON	2.0%	.80*	TTL	4	10	0.0	5.0	29nΔ			27mΔ	1.0	0	75	2	G0415	M105v
75	SE416J	4		MON	2.0%	.80*	TTL	5Δ	7†	0	6	65n	10n	10n	18m	1.0 Δ	-55	125	2	G04258	TO88
76	SE417J	4		MON	2.0%	.80*	TTL	4Δ	8	0	6	35n			18m	1.0 Δ	-55	125	2	G04325a	TO88
77	SN54H00	4		MON	2.0%	.80*	TTL	2	10	0.0	7.0	6.0n%			88m†	1.0 Δ	-55	125	4	G0415a	TO84
78	SN54H00F	4		MON	2.0%	.80*	TTL	2	10	0	7	10nΔ				1.0 Δ	-55	125	4	G0415a	TO84
79	SN54H10F	4		MON	2.0%	.80*	TTL	3	10	0	7	10nΔ				1.0 Δ	-55	125	3	G0415f	TO84
80	SN54H20	4		MON	2.0%	.80*	TTL	4	10	0.0	7.0	6.0n%			44m†	1.0 Δ	-55	125	2	G0415b	TO84
81	SN54H20F	4		MON	2.0%	.80*	TTL	4	10	0	7	10nΔ				1.0 Δ	-55	125	2	G0415b	TO84
82	SN54H30F	4		MON	2.0%	.80*	TTL	8	10	0	7	11nΔ				1.0 Δ	-55	125	1	G04150a	TO84
83	SN54H40F	4		MON	2.0%	.80*	TTL	4	30	0.0	7.0	10nΔ				1.0 Δ	-55	125	2	G0415b	TO84
84	SN74H00	4		MON	2.0%	.80*	TTL	2	10	0.0	7.0	6.0n%			88m†	1.0 Δ	0	70	4	G0415a	TO84
85	SN74H00F	4		MON	2.0%	.80*	TTL	2	10	0	7	10nΔ				1.0 Δ	0	70	4	G0415a	TO84
86	SN74H10F	4		MON	2.0%	.80*	TTL	3	10	0	7	10nΔ				1.0 Δ	0	70	3	G0415f	TO84
87	SN74H20	4		MON	2.0%	.80*	TTL	4	10	0.0	7.0	6.0n%			44m†	1.0 Δ	0	70	2	G0415b	TO84
88	SN74H20F	4		MON	2.0%	.80*	TTL	4	10	0	7	10nΔ				1.0 Δ	0	70	2	G0415b	TO84
89	SN74H30F	4		MON	2.0%	.80*	TTL	8	10	0	7	11nΔ				1.0 Δ	0	70	1	G04150a	TO84
90	SN74H40F	4		MON	2.0%	.80*	TTL	4	30	0	7	10nΔ				1.0 Δ	0	70	2	G0415b	TO84
91	SN5401	4		MON	2.0%	.80*	TTL	2	10	0.0	7.0	30nΔ			10mΔ	1.0	-55	125	4	G04233a	TO84
92	SN5410J	4		MON	2.0%	.80*	TTL	3	10	0.0	5.5	22n			10mΔ	1.0	-55	125	3	G0414a	M75f
93	SN5440J	4		MON	2.0%	.80*	TTL	4	30	0.0	5.0	22nΔ			135m%	1.0 Δ	-55	125	2	G0415b	M157b
94	SN7400	4		MON	2.0%	.80*	TTL	2	10	0	7	22n%			40m	1.0	0	70	4	G0414	TO84
95	SN7401	4		MON	2.0%	.80*	TTL	2	10	0.0	7.0	30n			10mΔ	1.0	0	70	4	G04233a	TO84
96	SN7410	4		MON	2.0%	.80*	TTL	3	10	0	7	22n%			30m	1.0	0	70	3	G0414a	TO84
97	SN7410J	4		MON	2.0%	.80*	TTL	3	10	0.0	7.0	22n			10mΔ	1.0	0	70	3	G0414a	M75f
98	SN7420	4		MON	2.0%	.80*	TTL	4	20	0.0	7.0	22n			10mΔ	1.0	0	70	2	G0414b	TO84
99	SN7430	4		MON	2.0%	.80*	TTL	8	10	0.0	7.0	22n			10mΔ	1.0	0	70	1	G0414c	TO84
100	SN7440	4		MON	2.0%	.80*	TTL	4	10	0	7	22n%			40m	1.0	0	70	2	G0415	TO84
101	SP416A	4		MON	2.0%	.80*	TTL	5Δ	7	0	6	30n	10n	10n	24m	1.5	15	55	2	G04258a	TO116
102	SP417A	4		MON	2.0%	.80*	TTL	4Δ	7	0	6	30n	10n	10n	24m	1.5	15	55	2	G04258a	TO116
103	SP808A	4		MON	2.0%	.80*	TTL	8		0	6				25m	2.0	15	55	1	G04273	TO116
104	SP816A	4		MON	2.0%	.80*	TTL	4		0	6				50m	2.0	15	55	2	G04273a	TO116
105	SP855A	4		MON	2.0%	.80*	TTL	4		0	6				90m	2.0	15	55	2	G0415k	TO116
106	SP870A	4		MON	2.0%	.80*	TTL	3		0	6				75m	2.0	15	55	3	G04273b	TO116
107	SP880A	4		MON	2.0%	.80*	TTL	2		0	6				100m	2.0	15	55	4	G04273c	TO116
108	ST416A	4		MON	2.0%	.80*	TTL	5Δ	7	0	6	30n	10n	10n	24m	1.5	0	70	2	G04258a	TO116

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	ST417A	4		MON	2.0%	.80*	TTL	4Δ	7	0	6	30n	10n	10n	24m	1.5	0	70	2	G04258a	TO116
2	ST808A	4		MON	2.0%	.80*	TTL	8		0	6				25m	2.0	0	70	1	G04273	TO116
3	ST816A	4		MON	2.0%	.80*	TTL	4		0	6				50m	2.0	0	70	2	G04273a	TO116
4	ST855A	4		MON	2.0%	.80*	TTL	4		0	6				90m	2.0	0	70	2	G0415k	TO116
5	ST870A	4		MON	2.0%	.80*	TTL	3		0	6				75m	2.0	0	70	3	G04273b	TO116
6	ST880A	4		MON	2.0%	.80*	TTL	2		0	6				100m	2.0	0	70	4	G04273c	TO116
7	TG7400E	4		MON	2.0%	.80*	TTL	2	10	0	7	22n%			40m	1.0	0	70	4	G0414	TO116
8	TG7401E	4		MON	2.0%	.80*	TTL	2	10	0	7	30n%			40m	1.0	0	70	4	G04233a	TO116
9	TG7410E	4		MON	2.0%	.80*	TTL	3	10	0.0	7.0	22n			10mΔ	1.0	0	70	3	G0414a	TO116
10	TG7420E	4		MON	2.0%	.80*	TTL	4	10	0.0	7.0	22n			10mΔ	1.0	0	70	2	G0414b	TO116
11	TG7430E	4		MON	2.0%	.80*	TTL	8	10	0	7	22n%			10m†	1.0	0	70	1	G0414c	TO116
12	TG7440E	4		MON	2.0%	.80*	TTL	4	30	0.0	7.0	13n			27mΔ	1.0	0	70	2	G0415	TO116
13	US5438J	4		MON	2.0%	.80*	TTL	2	30	0.0	5.0	15n			85m†	1.0 Δ	-55	125	4	G04387	TO88
14	USN7400A	4		MON	2.0%	.80*	TTL	2	10	0	7	29nΔ			40m†	1.0 Δ	0	70	4	G0414	TO116
15	USN7400J	4		MON	2.0%	.80*	TTL	2	10	0	7	29nΔ			40m†	1.0 Δ	0	70	4	G0414	TO88
16	USN7401A	4		MON	2.0%	.80*	TTL	2	10	0	7	45nΔ			40m	1.0 Δ	0	70	4	G04233a	TO116
17	USN7401J	4		MON	2.0%	.80*	TTL	2	10	0	7	45nΔ			40m	1.0 Δ	0	70	4	G04233a	TO88
18	USN7410A	4		MON	2.0%	.80*	TTL	3	10	0	7	29nΔ			30m	1.0 Δ	0	70	3	G0414a	TO116
19	USN7410J	4		MON	2.0%	.80*	TTL	3	10	0	7	29nΔ			30m	1.0 Δ	0	70	3	G0414a	TO88
20	USN7420A	4		MON	2.0%	.80*	TTL	4	10	0	7	29nΔ			20m	1.0 Δ	0	70	2	G0414b	TO116
21	USN7420J	4		MON	2.0%	.80*	TTL	4	10	0	7	29nΔ			20m	1.0 Δ	0	70	2	G0414b	TO88
22	USN7430A	4		MON	2.0%	.80*	TTL	8	10	0	7	29nΔ			10m	1.0 Δ	0	70	1	G0414c	TO116
23	USN7430J	4		MON	2.0%	.80*	TTL	8	10	0	7	29nΔ			10m	1.0 Δ	0	70	1	G0414c	TO88
24	USN7440A	4		MON	2.0%	.80*	TTL	4	30	0	7	29nΔ			20m	1.0 Δ	0	70	2	G0415b	TO116
25	USN7440J	4		MON	2.0%	.80*	TTL	4	30	0	7	29nΔ			20m	1.0 Δ	0	70	2	G0415b	TO88
26	USS5400A	4		MON	2.0%	.80*	TTL	2	10	0	7	29nΔ			40m†	1.0 Δ	-55	125	4	G0414	TO116
27	USS5400J	4		MON	2.0%	.80*	TTL	2	10	0	7	29nΔ			40m†	1.0 Δ	-55	125	4	G0414	TO88
28	USS5401A	4		MON	2.0%	.80*	TTL	2	10	0	7	45nΔ			40m	1.0 Δ	-55	125	4	G04233a	TO116
29	USS5401J	4		MON	2.0%	.80*	TTL	2	10	0	7	45nΔ			40m	1.0 Δ	-55	125	4	G04233a	TO88
30	USS5410A	4		MON	2.0%	.80*	TTL	3	10	0	7	29nΔ			30m	1.0 Δ	-55	125	3	G0414a	TO116
31	USS5410J	4		MON	2.0%	.80*	TTL	3	10	0	7	29nΔ			30m	1.0 Δ	-55	125	3	G0414a	TO88
32	USS5420A	4		MON	2.0%	.80*	TTL	4	10	0	7	29nΔ			20m	1.0 Δ	-55	125	2	G0414b	TO116
33	USS5420J	4		MON	2.0%	.80*	TTL	4	10	0	7	29nΔ			20m	1.0 Δ	-55	125	2	G0414b	TO88
34	USS5430A	4		MON	2.0%	.80*	TTL	8	10	0	7	29nΔ			10m	1.0 Δ	-55	125	1	G0414c	TO116
35	USS5430J	4		MON	2.0%	.80*	TTL	8	10	0	7	29nΔ			10m	1.0 Δ	-55	125	1	G0414c	TO88
36	USS5440A	4		MON	2.0%	.80*	TTL	4	30	0	7	29nΔ			20m	1.0 Δ	-55	125	2	G0415b	TO116
37	USS5440J	4		MON	2.0%	.80*	TTL	4	30	0	7	29nΔ			20m	1.0 Δ	-55	125	2	G0415b	TO88
38	WC7400D	4		MON	2.0%	.80*	TTL	2	10	0.0	7.0	22n			10mΔ	1.0	0	75	4	G0414	M126b
39	WC7410D	4		MON	2.0%	.80*	TTL	3	10	0.0	7.0	22n			10mΔ	1.0	0	75	3	G0414a	M126b
40	WC7420D	4		MON	2.0%	.80*	TTL	4	20	0.0	7.0	22n			10mΔ	1.0	0	75	2	G0414b	M126b
41	WC7430D	4		MON	2.0%	.80*	TTL	8	10	0	7	22n%			10m†	1.0	0	75	1	G0414c	M126b
42	WC7440D	4		MON	2.0%	.80*	TTL	4	10	0.0	7.0	22n			27mΔ	1.0	0	75	2	G0415	M126b
43	RC210D	4		MON	2.0%	1.0*	DTL	3	19	0	6.0	75n			40m†	550m	0	75	2		M105k
44	RC210G	4		MON	2.0%	1.0*	DTL	3	19	0	6.0	75n			40m†	550m	0	75	2	G0437	TO84
45	RC210P	4		MON	2.0%	1.0*	DTL	3	19	0	6.0	75n			40m†	550m	0	75	2		M105m
46	RC210T	4		MON	2.0%	1.0*	DTL	3	19	0	6.0	75n			40m†	550m	0	75	2	G0437	TO101
47	RC220D	4		MON	2.0%	1.0*	DTL	4Δ	19	0	6.0	75n			40m†	550m	0	75	2		M105k
48	RC220G	4		MON	2.0%	1.0*	DTL	4Δ	19	0	6.0	75n			40m†	550m	0	75	2	G04376	TO84
49	RC220P	4		MON	2.0%	1.0*	DTL	4Δ	19	0	6.0	75n			40m†	550m	0	75	2		M105m
50	RC220T	4		MON	2.0%	1.0*	DTL	4Δ	19	0	6.0	75n			40m†	550m	0	75	2	G04376	TO101
51	RC286D	4		MON	2.0%	1.0*	DTL	1	11	0	6.0	48n			66m†	550m	0	75	6		M105k
52	RC286G	4		MON	2.0%	1.0*	DTL	1	11	0	6.0	48n			66m†	550m	0	75	6	G0428t	TO84
53	RC286P	4		MON	2.0%	1.0*	DTL	1	11	0	6.0	48n			66m†	550m	0	75	6		M105m
54	RC296D	4		MON	2.0%	1.0*	DTL	1	11	0	6.8	48n			66m†	550m	0	75	6	G0428t	M105k
55	RC296G	4		MON	2.0%	1.0*	DTL	1	11	0	6.0	48n			66m†	550m	0	75	6	G0428t	TO84
56	RC296P	4		MON	2.0%	1.0*	DTL	1	11	0	6.0	48n			66m†	550m	0	75	6	G0428t	M105m
57	RM210P	4		MON	2.0%	1.0*	DTL	3	19	0	6.0	75n			40m†	550m	-55	125	2		M105m
58	RM220P	4		MON	2.0%	1.0*	DTL	4Δ	19	0	6.0	75n			40m†	550m	-55	125	2		M105m
59	RM286P	4		MON	2.0%	1.0*	DTL	1	11	0	6.0	48n			66m†	550m	-55	125	6		M105m
60	RM296P	4		MON	2.0%	1.0*	DTL	1	11	0	6.0	48n			66m†	550m	-55	125	6	G0428t	M105m
61	RM957P	4		MON	2.0%	1.0*	DTL	2	25	0	5.0	35n			180m†	500m	-55	125	4		M105k
62	RM958P	4		MON	2.0%	1.0*	DTL	2	27	0	5.0	30n			140m†	500m	-55	125	4		M105k
63	RM1900D	4		MON	2.0%	1.0*	DTL	4	8	0	5.0	30n			44m†	500m	-55	125	2		M105m
64	RM1900J	4		MON	2.0%	1.0*	DTL	4	8	0	5.0	30n			44m†	500m	-55	125	2		FP28
65	RM1900P	4		MON	2.0%	1.0*	DTL	4	8	0	5.0	30n			44m†	500m	-55	125	2		M105k
66	RM1901D	4		MON	2.0%	1.0*	DTL	4	7	0	5.0	25n			66m†	500m	-55	125	2		M105m
67	RM1901J	4		MON	2.0%	1.0*	DTL	4	7	0	5.0	25n			66m†	500m	-55	125	2		FP28
68	RM1901P	4		MON	2.0%	1.0*	DTL	4	7	0	5.0	25n			66m†	500m	-55	125	2		M105k
69	RM1902D	4		MON	2.0%	1.0*	DTL	7	8	0	5.0	30n			11m†	500m	-55	125	1		M105m
70	RM1902J	4		MON	2.0%	1.0*	DTL	7	8	0	5.0	30n			11m†	500m	-55	125	1		FP28
71	RM1902P	4		MON	2.0%	1.0*	DTL	7	8	0	5.0	30n			11m†	500m	-55	125	1		M105k
72	RM1903D	4		MON	2.0%	1.0*	DTL	7	7	0	5.0	25n			16m†	500m	-55	125	1		M105m
73	RM1903J	4		MON	2.0%	1.0*	DTL	7	7	0	5.0	25n			16m†	500m	-55	125	1		FP28
74	RM1903P	4		MON	2.0%	1.0*	DTL	7	7	0	5.0	25n			16m†	500m	-55	125	1		M105k
75	RM1904D	4		MON	2.0%	1.0*	DTL		8	0	5.0	30n			11m†	500m	-55	125	1		M105m
76	RM1904J	4		MON	2.0%	1.0*	DTL		8	0	5.0	30n			11m†	500m	-55	125	1		FP28
77	RM1904P	4		MON	2.0%	1.0*	DTL		8	0	5.0	30n			11m†	500m	-55	125	1		M105k
78	RM1905D	4		MON	2.0%	1.0*	DTL		7	0	5.0	25n			16m†	500m	-55	125	1		M105m
79	RM1905J	4		MON	2.0%	1.0*	DTL		7	0	5.0	25n			16m†	500m	-55	125	1		FP28
80	RM1905P	4		MON	2.0%	1.0*	DTL		7	0	5.0	25n			16m†	500m	-55	125	1		M105k
81	PL930	4		MON	2.0	1.1	DTL	5Δ		0.0	5.0						-55	125	2	G04153	TO86
82	PL932	4		MON	2.0	1.1	DTL	5Δ		0.0	5.0						-55	125	1	G04154a	TO86
83	PL944	4		MON	2.0	1.1	RTL	5Δ		0.0	5.0						-55	125	2	G04154	TO86
84	PL946	4		MON	2.0	1.1	DTL	2		0.0	5.0						-55	125	4	G04153a	TO86
85	PL961	4		MON	2.0	1.1	DTL	5Δ		0.0	5.0						-55	125	2	G04153	TO86
86	PL962	4		MON	2.0	1.1	DTL	3		0.0	5.0						-55	125	3	G04153c	TO86
87	PL963	4		MON	2.0	1.1	DTL	3		0.0	5.0						-55	125	3	G04153c	TO86
88	PL9930	4		MON	2.0	1.1	DTL	5Δ		0.0	5.0								2	G0492f	TO86
89	PL9932	4		MON	2.0	1.1	DTL	5Δ		0.0	5.0								1	G04154a	TO86
90	PL9944	4		MON	2.0	1.1	DTL	5Δ		0.0	5.0								2	G04154	TO86
91	PL9946	4		MON	2.0	1.1	DTL	2		0.0	5.0								4	G04929	TO86
92	PL9961	4		MON	2.0	1.1	DTL	5Δ		0.0	5.0						-55	125	2	G0492f	TO86
93	PL9962	4		MON	2.0	1.1	DTL	3		0.0	5.0								3	G0492j	TO86
94	PL9963	4		MON	2.0	1.1	DTL	3		0.0	5.0						-55	125	3	G0492j	TO86
95	SI832	4		MON	2.0	1.1	DTL	5Δ	2	0	5	80nΔ					0	75	2	G04154c	TO84
96	SI844	4		MON	2.0	1.1	DTL	5Δ	2	0	5.5	50n					0	75	2	G04154	TO84
97	SI932	4		MON	2.0	1.1	DTL	5Δ	2	0	5	8nΔ					-55	125	2	G04154c	TO84
98	SI944	4		MON	2.0	1.1	DTL	5Δ	2	0	5.5	50n					-55	125	2	G04154	TO84
99	NE111J	4		MON	2.0	1.15	DTL	4	1	0	8.2	65n		75n	134m	1.0 Δ	0	70	2	G0485	TO88
100	NE155J	4		MON	2.0	1.15	DTL	4	1	0	8.2	40n		75n	134m	1.0 Δ	0	70	2	G04227a	TO88
101	NS720J	4		MON	2.0	1.15	DTL	2	1	0	8.2	80n		75n	76m	1.0 Δ	0	70	4		TO88
102	NS721J	4		MON	2.0	1.15	DTL	3	1	0	8.2	80n		75n	76m	1.0 Δ	0	70	3		TO88
103	NS727J	4		MON	2.0	1.15	DTL	3Δ	1	0	8.2	80n		75n	69m	1.0 Δ	0	70	3		TO88
104	NS715K	4		MON	2.05	1.1	DTL	3Δ	1	0	8.2	40n		60n	24m	1.0 Δ	0	70	2	G04226	CN17
105	NS716K	4		MON	2.05	1.1	DTL	3Δ	1	0	8.2	28n			168m	1.0 Δ	0	70	2	G0483	CN17
106#	FHH101A	4		MON	2.3%	.40*	TTL	8	9	0	5	6n			22m	1.0	0	75	1	G04240a	TO116
107#	FHH101B	4		MON	2.3%	.40*	TTL	8	5	0	5	6n			22m	1.0	0	75	1	G04240a	TO116
108#	FHH121A	4		MON	2.3%	.40*	TTL	4	9	0	7	6n			44m	1.0	0	75	2	G04240	TO116
109#	FHH121B	4		MON	2.3%	.40*	TTL	4	5	0	5	6n			44m	1.0	0	75	2	G04240	TO116
110#	FHH141A	4		MON	2.3%	.40*	TTL	2	9	0	5	6n			88m	1.0	0	75	4	G04240b	TO116

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1#	FHH141B	4		MON	2.3%	.40*	TTL	2	5	0	5	6n			88m	1.0	0	75	4	G04240b	TO116
2	PL104	4		MON	2.3	.40	TTL	8	15	0.0	6.0	50nΔ			15m		-55	125	1	G04179a	FP1
3#	FFH122A2	4		MON	2.4%	.40*	DTL	5Δ	25	8.0	8	45n			28m	1.0	-55	125	1	G04226	TO74
4#	FFH122C1	4		MON	2.4%	.40*	DTL	5Δ	25	8.0	8	45n			28m	1.0	-55	125	1	G04226	TO91
5	HDT54H00R	4		MON	2.4%	.40*	TTL	2	10	0.0	8.0	8.5n			200m	1.2 Δ	-55	125	4	G0415a	TO86
6	HDT54H20R	4		MON	2.4%	.40*	TTL	4	10	0.0	8.0	8.5n			100m	1.2 Δ	-55	125	2	G0415b	TO86
7	RDT54H00R	4		MON	2.4%	.40*	TTL	2	10	0.0	8.0	8.5n			200m	1.2 Δ	-55	125	4	G0415a	TO86
8	RDT54H20R	4		MON	2.4%	.40*	TTL	4	10	0.0	8.0	8.5n			100m	1.2 Δ	-55	125	2	G0415b	TO86
9	SN54965	4		MON	2.4	.40	TTL	8	10	0	5	13n			10m	400m	-55	125	1	G043ae	ZB6
10	SN74965	4		MON	2.4	.40	TTL	8	10	0	5	13n			10m	400m	0	70	1	G043ae	ZB6
11	SN54930	4		MON	2.5%	.45*Δ	TTL	4	10	0	5.5	13n			5.0m	400m	-55	125	2	G0414d	ZB6
12	SN54946	4		MON	2.5%	.45*Δ	TTL	2	10	0	5.5	13n			20m	400m	-55	125	4	G0414e	ZB6
13#	D930-1R	4		MON	2.6%	.40Δ*	DTL	5Δ	8	0.0	5.0	25n			9.0mΔ	1.0	-55	125	2	G04217	TO116
14#	D930-1U	4		MON	2.6%	.40Δ*	DTL	5Δ	8	0.0	5.0	25n			9.0mΔ	1.0	-55	125	2	G04217	FP32
15#	D932-1R	4		MON	2.6%	.40Δ*	DTL	5Δ	25	0.0	5.0	40n			28mΔ	1.0	-55	125	2	G04207a	TO116
16#	D932-1U	4		MON	2.6%	.40Δ*	DTL	5Δ	25	0.0	5.0	40n			28mΔ	1.0	-55	125	2	G04207a	FP32
17#	D944-1R	4		MON	2.6%	.40Δ*	DTL	5Δ	27%	0.0	5.0	40n			30mΔ	1.0	-55	125	2	G04312a	TO116
18#	D944-1U	4		MON	2.6%	.40Δ*	DTL	5Δ	27%	0.0	5.0	40n			30mΔ	1.0	-55	125	2	G04312a	FP32
19#	D946-1R	4		MON	2.6%	.40Δ*	DTL	2	8	0.0	5.0	25n			9.0mΔ	1.0	-55	125	4	G04217a	TO116
20#	D946-1U	4		MON	2.6%	.40Δ*	DTL	2	8	0.0	5.0	25n			9.0mΔ	1.0	-55	125	4	G04217a	FP32
21#	D962-1R	4		MON	2.6%	.40Δ%	DTL	3	8	0.0	5.0	25n			9.0mΔ	1.0	-55	125	3	G04217b	TO116
22#	D962-1U	4		MON	2.6%	.40Δ%	DTL	3	8	0.0	5.0	25n			9.0mΔ	1.0	-55	125	3	G04217b	FP32
23	HDD930R	4		MON	2.6%	.40†*	DTL	5Δ	9	0.0	8.0	30n			33m	1.0	-55	125	2	G041e	TO86
24	HDD932R	4		MON	2.6%	.40†*	DTL	5Δ	22	0.0	8.0	20n			135m	1.0	-55	125	2	G04218	TO86
25	HDD944R	4		MON	2.6%	.40†*	DTL	5Δ	22	0.0	8.0	15n			100m	1.0	-55	125	2	G04218a	TO86
26	HDD946R	4		MON	2.6%	.40†*	DTL	2	9	0.0	8.0	30n			63m	1.0	-55	125	4	G0427	TO86
27	HDD962R	4		MON	2.6%	.40†*	DTL	3	9	0.0	8.0	30n			50m	1.0	-55	125	3	G0492b	TO86
28#	D930-9R	4		MON	2.6%	.45Δ*	DTL	5Δ	8	0.0	5.0	25n			9.0mΔ	1.0	0	75	2	G04217	TO116
29#	D930-9U	4		MON	2.6%	.45Δ*	DTL	5Δ	8	0.0	5.0	25n			9.0mΔ	1.0	0	75	2	G04217	FP32
30#	D932-9R	4		MON	2.6%	.45Δ*	DTL	5Δ	25	0.0	5.0	40n			28mΔ	1.0	0	75	2	G04207a	TO116
31#	D932-9U	4		MON	2.6%	.45Δ*	DTL	5Δ	25	0.0	5.0	40n			28mΔ	1.0	0	75	2	G04207a	FP32
32#	D944-9R	4		MON	2.6%	.45Δ*	DTL	5Δ	27%	0.0	5.0	40n			30mΔ	1.0	0	75	2	G04312a	TO116
33#	D944-9U	4		MON	2.6%	.45Δ*	DTL	5Δ	27%	0.0	5.0	40n			30mΔ	1.0	0	75	2	G04312a	FP32
34#	D946-9R	4		MON	2.6%	.45Δ*	DTL	2	8	0.0	5.0	25n			9.0mΔ	1.0	0	75	4	G04217a	TO116
35#	D946-9U	4		MON	2.6%	.45Δ*	DTL	2	8	0.0	5.0	25n			9.0mΔ	1.0	0	75	4	G04217a	FP32
36#	D962-9R	4		MON	2.6%	.45Δ*	DTL	3	8	0.0	5.0	25n			9.0mΔ	1.0	0	75	3	G04217b	TO116
37#	D962-9U	4		MON	2.6%	.45Δ*	DTL	3	8	0.0	5.0	25n			9.0mΔ	1.0	0	75	3	G04217b	FP32
38	HEPC1057P-RT	4		MON	2.60%	.45*†	DTL	2	8	0.0	5.0	35n			170m†		0	75	4	G04154f	TO116
39	WC930D	4		MON	2.6%	.45*	DTL	5Δ	8	0	8	30n			22m†		0	75	2	G0492	M126b
40	WC932D	4		MON	2.6%	.45*	DTL	5Δ	25	0	8	35n			85m†		0	75	2	G04154a	M126b
41	WC961D	4		MON	2.6%	.45*	DTL	5Δ	7	0	8	25n			33m†		0	75	2	G0492	M126b
42	RD222	4		MON	2.6	.50†	DTL	3		0	55						-55	125	3	G04324	FP28a
43	510BH	4		MON	2.7	.20	TTL	6	10	0.0	5.5				6.0m†		-55	125			
44	511BH	4		MON	2.7	.20	TTL	6	10	0.0	5.5				3.0m†		-55	125			
45	513BH	4		MON	2.7	.20	TTL	8	10	0.0	5.5				3.0m†		-55	125			
46	525BN	4		MON	2.7	.20†*	TTL	2	10†	0.0	5.0	1.0uΔ			1.1m†		-55	125	4	G04273g	M105aa
47	526BN	4		MON	2.7	.20†*	TTL	5Δ	10†	0.0	5.0	1.0uΔ			560u†		-55	125	2	G04420	M105aa
48	527BN	4		MON	2.7	.20†*	TTL	5Δ	10†	0.0	5.0	1.0uΔ			560u†		-55	125	2	G04415	M105aa
49	528BN	4		MON	2.7	.20†*	TTL	4	10†	0.0	5.0	1.0uΔ			560u†		-55	125	2	G04421	M105aa
50	6041BN	4		MON	2.7%	.20†*	DTL	4		0.0	5.0	63n%			3.8m†	1.5 Δ	-55	125	2	G04422a	M105ab
51	6042BN	4		MON	2.7%	.20†*	DTL	5Δ		0.0	5.0	63n%			3.8m†	1.5 Δ	-55	125	2	G04422	M105ab
52	6046BN	4		MON	2.7%	.20†*	DTL	2		0.0	5.0	63n%			7.7m†	1.5 Δ	-55	125	4	G04423	M105ab
53	NE8855A	4		MON	2.8%	.4*†	TTL	4		0	6	29nΔ		50n	108m	600m	0	75	2	G0415k	TO116
54	NE8855J	4		MON	2.8%	.4*†	TTL	4		0	6	29nΔ		50n	108m	600m	0	75	2	G0415k	TO88
55	NE8870A	4		MON	2.8%	.4*†	TTL	3		0	6	25nΔ		50n	53m	600m	0	75	3	G04273b	TO116
56	NE8870J	4		MON	2.8%	.4*†	TTL	3		0	6	25nΔ		50n	53m	600m	0	75	3	G04273b	TO88
57	NE8880A	4		MON	2.8%	.4*†	TTL	2		0	6	25nΔ		50n	53m	600m	0	75	4	G04273c	TO116
58	NE8880J	4		MON	2.8%	.4*†	TTL	2		0	6	25nΔ		50n	53m	600m	0	75	4	G04273c	TO88
59	PL103	4		MON	2.8	.40	TTL	4	15	0.0	6.0	45nΔ			30m		-55	125	2	G04179	FP1
60	SE8855A	4		MON	2.8%	.4*†	TTL	4		0	6	29nΔ		50n	108m	600m	-55	125	2	G0415k	TO116
61	SE8855J	4		MON	2.8%	.4*†	TTL	4		0	6	29nΔ		50n	108m	600m	-55	125	2	G0415k	TO88
62	SE8870A	4		MON	2.8%	.4*†	TTL	3		0	6	25nΔ		50n	53m	600m	-55	125	3	G04273b	TO116
63	SE8870J	4		MON	2.8%	.4*†	TTL	3		0	6	25nΔ		50n	53m	600m	-55	125	3	G04273b	TO88
64	SE8880A	4		MON	2.8%	.4*†	TTL	2		0	6	25nΔ		50n	53m	600m	-55	125	4	G04273c	TO116
65	SE8880J	4		MON	2.8%	.4*†	TTL	2		0	6	25nΔ		50n	53m	600m	-55	125	4	G04273c	TO88
66	PD9180-51	4		MON	3.0	.20	DTL	5	8	0.0	8.0	30n			40m†	1.0	-55	125	2	G0427k	TO116
67	PD9180-59	4		MON	3.0	.20	DTL	5	8	0.0	8.0	30n			40m†	1.0	0	75	2	G0427k	TO116
68	PD9858-51	4		MON	3.0	.20	DTL	2	27	0.0	8.0	30n			130m†	1.0	-55	125	4	G04376	TO116
69	PD9858-59	4		MON	3.0	.20	DTL	2	27	0.0	8.0	30n			130m†	1.0	0	75	4	G04376	TO116
70	PL9180-51	4		MON	3.0	.20	DTL	5	8	0.0	8.0	30n			40m†	1.0	-55	125	4	G0427k	TO86
71	PL9858-51	4		MON	3.0	.20	DTL	2	27	0.0	8.0	30n			130m†	1.0	-55	125	4	G04376	TO86
72	PL9858-59	4		MON	3.0	.20	DTL	2	27	0.0	8.0	30n			130m†	1.0	0	75	4	G04376	TO86
73#	FFH131A2	4		MON	3.0%	.40*	DTL	4	25	1.5	4.5	45n			28m	1.0	0	75	1	G04140	TO74
74#	FFH131C1	4		MON	3.0%	.40*	DTL	4	25	1.5	4.5	45n			28m	1.0	0	75	1	G04140	TO91
75#	FFH132A2	4		MON	3.0%	.40*	DTL	4	25	1.5	4.5	45n			28m	1.0	-55	125	1	G04140	TO74
76#	FFH132C1	4		MON	3.0%	.40*	DTL	4	25	1.5	4.5	45n			28m	1.0	-55	125	1	G04140	TO91
77	PL9180-59	4		MON	3.0	2.0	DTL	5	8	0.0	8.0	30n			40m†	1.0	0	75	2	G0427k	TO86
78	NE808J	4		MON	3.1	.20†	TTL	8	10		5.5	13n			15m	1.0 Δ	0	70	2	G04273	TO88
79	NE816J	4		MON	3.1	.20†	TTL	4	10		5.5	13n			30m	1.0 Δ	0	70	2	G04273a	TO88
80	NE855J	4		MON	3.1	.20†	TTL	4	30		5.5	13n			86m	1.0 Δ	0	70	2	G0415k	TO88
81	NE870J	4		MON	3.1	.20†	TTL.	3	10		5.5	13n			45m	1.0 Δ	0	70	3	G04273b	TO88
82	NE880J	4		MON	3.1	.20†	TTL	2	10		5.5	13n			60m	1.0 Δ	0	70	4	G04273c	TO88
83	SE808J	4		MON	3.1	.20†	TTL	8	10	0.0	6.0	13n			15m	1.0 Δ	0	70	2	G04273	TO88
84	SE816J	4		MON	3.1	.20†	TTL	4	10	0.0	6.0	13n			30m	1.0 Δ	-55	125	2	G04273a	TO88
85	SE855J	4		MON	3.1	.20†	TTL	4	30	0.0	5.6	15n			86m	1.0	-55	125	2	G04274	TO88
86	SE480J	4		MON	3.1%	.3*†	TTL	2	8	0	6.0	54n		75n	40m	1.0	-55	125	4	G04260	TO88
87#	MMG42	4		MON	3.1%	.40†*	TTL	4	12	0.0	5.0	10n	5.0n	8.0n	30m†	900m	0	75	2	G0471	M75
88#	MMG43	4		MON	3.1%	.40†*	TTL	4	6	0.0	5.0	10n	5.0n	8.0n	30m†	900m	0	75	2	G0471	M75
89#	MMG62	4		MON	3.1%	.40†*	TTL	8	12	0.0	5.0	12n	5.0n	8.0n	15m†	900m	0	75	1	G04212g	M75
90#	MMG63	4		MON	3.1%	.40†*	TTL	8	6	0.0	5.0	12n	5.0n	8.0n	15m†	900m	0	75	1	G04212g	M75
91#	MMG122	4		MON	3.1%	.40†*	TTL	9Δ	12	0.0	5.0	18n	5.0n	8.0n	15m†	900m	0	75	1	G04212h	M75
92#	MMG123	4		MON	3.1%	.40†*	TTL	9Δ	6	0.0	5.0	18n	5.0n	8.0n	15m†	900m	0	75	1	G04212h	M75
93#	MMG132	4		MON	3.1%	.40†*	TTL	4	24	0.0	5.0	25n	30n	8.0n	60m†	900m	0	75	2	G04191	M75
94#	MMG133	4		MON	3.1%	.40†*	TTL	4	12	0.0	5.0	25n	30n	8.0n	60m†	900m	0	75	2	G04191	M75
95#	MMG142	4		MON	3.1%	.40†*	TTL	2	12	0.0	5.0	10n	5.0n	8.0n	60m†	900m	0	75	4	G04212f	M75
96#	MMG143	4		MON	3.1%	.40†*	TTL	2	6	0.0	5.0	10n	5.0n	8.0n	60m†	900m	0	75	4	G04212f	M75
97#	MMG192	4		MON	3.1%	.40†*	TTL	3	12	0.0	5.0	10n	5.0n	8.0n	45m†	900m	0	75	3	G04212e	M75
98#	MMG193	4		MON	3.1%	.40†*	TTL	3	6	0.0	5.0	10n	5.0n	8.0n	45m†	900m	0	75	3	G04212e	M75
99	NE416A	4		MON	3.2%	.35†*	DTL	5Δ	7†	0	6	65n	10n	10n	18m	1.0 Δ	0	70	2	G04258a	M105b
100	NE416J	4		MON	3.2%	.35†*	DTL	5Δ	7†	0	6	65n	10n	10n	18m	1.0 Δ	0	70	2	G04258	TO88
101	NE417A	4		MON	3.2%	.35†*	DTL	4Δ	7	0	6	35n			18m	1.0 Δ	0	70	2	G04325	M105b
102	NE480A	4		MON	3.2%	.35†*	TTL	2	7†	0	6	80n	10n	10n	36m	1.0 Δ	0	70	4	G04260	M105b
103	NE480J	4		MON	3.2%	.35†*	TTL	2	7†	0	6	80n	10n	10n	36m	1.0 Δ	0	70	4	G04260	TO88
104	SP455A	4		MON	3.2%	.35†*	TTL	4	7	0	6				32m	1.5	15	55	2	G04303	TO116
105	SP480A	4		MON	3.2%	.35†*	TTL	2	7	0	6				18m	1.5	15	55	4	G04260	TO116
106	ST455A	4		MON	3.2%	.35†*	TTL	4	7	0	6				32m	1.5	0	70	2	G04303	TO116
107	ST480A	4		MON	3.2%	.35†*	TTL	2	7	0	6				18m	1.5	0	70	4	G04260	TO116
108#	MMG140	4		MON	3.2%	.40†*	TTL	2	15	0.0	5.0	10n	5.0n	8.0n	60m†	900m	-55	125	4	G04212f	M75
109#	MMG141	4		MON	3.2%	.40†*	TTL	2	7	0.0	5.0	10n	5.0n	8.0n	60m†	900m	-55	125	4	G04212f	M75

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL		LOGIC TYPE	FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (s)	MAX.		MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP.		CKT PER MOD	DRAWINGS	
					4 '1' (V)	5 '0' (V)		IN	OUT	NEG. (V)	POS. (V)		RISE TIME tr (s)	FALL TIME tf (s)			LOW °C	HI °C		LOGIC DWG. No	OUTLINE DWG. No Δ=MO
1	TNG5211F	4		MON	3.2%	.45*†	TTL	4	36	0	8	16nΔ			60m†	450mΔ	-55	125	2	G0478b	FP21c
2	TNG5221F	4		MON	3.2%	.45*†	TTL	2	36	0	8	16nΔ			60m†	450mΔ	-55	125	2	G0478f	FP21c
3	TNG5221P	4		MON	3.2%	.45*†	TTL	2	36	0	8	16nΔ			60m†	450mΔ	-55	125	2	G0478f	TO116
4	TNG5222F	4		MON	3.2%	.45*†	TTL	2	36	0	7	16nΔ			60m†	450mΔ	0	75	2	G0478f	FP21c
5	TNG5222P	4		MON	3.2%	.45*†	TTL	2	36	0	7	16nΔ			60m†	450mΔ	0	75	2	G0478f	TO116
6	TNG5223F	4		MON	3.2%	.45*†	TTL	2	24	0	8	16nΔ			60m†	450mΔ	-55	125	2	G0478f	FP21c
7	TNG5223P	4		MON	3.2%	.45*†	TTL	2	24	0	8	16nΔ			60m†	450mΔ	-55	125	2	G0478f	TO116
8	TNG5224F	4		MON	3.2%	.45*†	TTL	2	24	0	7	16nΔ			60m†	450mΔ	0	75	2	G0478f	FP21c
9	TNG5224P	4		MON	3.2%	.45*†	TTL	2	24	0	7	16nΔ			60m†	450mΔ	0	75	2	G0478f	TO116
10	TNG5511F	4		MON	3.2%	.45*†	TTL	2	36	0	8	16nΔ			120m†	450mΔ	-55	125	4	G0478d	FP21c
11	TNG5511P	4		MON	3.2%	.45*†	TTL	2	36	0	8	16nΔ			120m†	450mΔ	-55	125	4	G0478d	TO116
12	TNG5512F	4		MON	3.2%	.45*†	TTL	2	36	0	7	16nΔ			120m†	450mΔ	0	75	4	G0478d	FP21c
13	TNG5512P	4		MON	3.2%	.45*†	TTL	2	36	0	7	16nΔ			120m†	450mΔ	0	75	4	G0478d	TO116
14	TNG5513F	4		MON	3.2%	.45*†	TTL	2	24	0	8	16nΔ			120m†	450mΔ	-55	125	4	G0478d	FP21c
15	TNG5513P	4		MON	3.2%	.45*†	TTL	2	24	0	8	16nΔ			120m†	450mΔ	-55	125	4	G0478d	TO116
16	TNG5514F	4		MON	3.2%	.45*†	TTL	2	24	0	7	16nΔ			120m†	450mΔ	0	75	4	G0478d	FP21c
17	TNG5514P	4		MON	3.2%	.45*†	TTL	2	24	0	7	16nΔ			120m†	450mΔ	0	75	4	G0478d	TO116
18	CD2200D	4		MON	3.4	.10	DTL	5Δ	6	0	6.8	55n			4.6m†	1.2 Δ	-55	125	2	G04287a	M135
19	CD2201D	4		MON	3.4	.10	DTL	2	6	0	6.8	55n			9.2m†	1.2 Δ	-55	125	4	G043ad	M135
20	CD2202D	4		MON	3.4	.15	DTL	5Δ	25	0	6.8	48n			24m†	1.2 Δ	-55	125	2	G04287a	M135
21	RG201P	4		MON	3.5	.20	TTL	8	6	0.0	5	8.0n			22m†	1.0	-55	125	1		M105k
22	RG202P	4		MON	3.5	.20	TTL	8	9	0.0	5	8.0n			22m†	1.0	0	75	1		M105k
23	RG203P	4		MON	3.5	.20	TTL	8	5	0.0	5	8.0n			22m†	1.0	0	75	1		M105k
24	RG220P	4		MON	3.5	.20	TTL	2	11	0.0	5.0	6.0n			88m†	1.0	-55	125	4		M105k
25	RG221P	4		MON	3.5	.20	TTL	2	6	0.0	5.0	6.0n			88m†	1.0	-55	125	4		M105k
26	RG222P	4		MON	3.5	.20	TTL	2	9	0.0	5.0	6.0n			88m†	1.0	0	75	4		M105k
27	RG223P	4		MON	3.5	.20	TTL	2	5	0.0	5	6.0n			88m†	1.0	0	75	4		M105k
28	RG240P	4		MON	3.5	.20	TTL	4	11	0.0	5.0	6.0n			44m†	1.0	-55	125	2		M105k
29	RG241P	4		MON	3.5	.20	TTL	4	6	0.0	5.0	6.0n			44m†	1.0	-55	125	2		M105k
30	RG242P	4		MON	3.5	.20	TTL	4	9	0.0	5.0	6.0n			44m†	1.0	0	75	2		M105k
31	RG243P	4		MON	3.5	.20	TTL	4	5	0.0	5.0	6.0n			44m†	1.0	0	75	2		M105k
32	RG260P	4		MON	3.5	.20	TTL	8	11	0.0	5.0	8.0n			22m†	1.0	-55	125	1		M105k
33	RG261P	4		MON	3.5	.20	TTL	8	6	0.0	5.0	8.0n			22m†	1.0	-55	125	1		M105k
34	RG262P	4		MON	3.5	.20	TTL	8	9	0.0	5.0	8.0n			22m†	1.0	0	75	1		M105k
35	RG263P	4		MON	3.5	.20	TTL	8	5	0.0	5.0	8.0n			22m†	1.0	0	75	1		M105k
36	RG320P	4		MON	3.5	.20	TTL	3	11	0.0	5	6.0n			66m†	1.0	-55	125	3		M105k
37	RG321P	4		MON	3.5	.20	TTL	3	6	0.0	5	6.0n			66m†	1.0	-55	125	3		M105k
38	RG322P	4		MON	3.5	.20	TTL	3	9	0.0	5	6.0n			66m†	1.0	0	75	3		M105k
39	RG323P	4		MON	3.5	.20	TTL	3	5	0.0	5	6.0n			66m†	1.0	0	75	3		M105k
40	LU337A	4		MON	3.5%	.40†		5Δ	12†	0.0	5.0	45n			90m†	1.2	10	55	2	G04400a	M105q
41	LU377A	4		MON	3.5%	.40†		3	12†	0.0	5.0	45n			135m†	1.2	10	55	33	G04400b	M105q
42	LU387A	4		MON	3.5%	.40†		2	12†	0.0	5.0	45n			180m†	1.2	10	55	4	G04400c	M105q
43#	SFC301M	4		MON	3.5%	.45*	DTL	4	6	0	8	25n			10m†		-55	125	1	G04310	TO100
44#	SFC301PM	4		MON	3.5%	.45*	DTL	4	6	0	8	25n			10m†		-55	125	1	G04310	TO91
45#	SFC310M	4		MON	3.5%	.45*	DTL	3	22	0	8	25n			10m†		-55	125	1	G04310d	TO100
46#	SFC310PM	4		MON	3.5%	.45*	DTL	3	22	0	8	25n			10m†		-55	125	1	G04310d	TO91
47#	SFC315M	4		MON	3.5%	.45*	DTL	2	6	0	8	25n			20m†		-55	125	2	G04310a	TO100
48#	SFC315PM	4		MON	3.5%	.45*	DTL	2	6	0	8	25n			20m†		-55	125	2	G04310a	TO91
49#	SFC330M	4		MON	3.5%	.45*	DTL	3	6	0.0	8.0	25n			20m†		-55	125	2	G04310c	TO100
50#	SFC330PM	4		MON	3.5%	.45*	DTL	3	6	0.0	8.0	25n			20m†		-55	125	2	G04310c	TO91
51#	SFC331M	4		MON	3.5%	.45*	DTL	3	6	0.0	8.0	25n			20m†		-55	125	2	G04310c	TO100
52#	SFC331PM	4		MON	3.5%	.45*	DTL	3	6	0.0	8.0	25n			20m†		-55	125	2	G04310c	TO91
53#	SFC350M	4		MON	3.5%	.45*	DTL	2	22	0	8	25n			10m†		-55	125	1	G04311	TO100
54#	SFC350PM	4		MON	3.5%	.45*	DTL	2	22	0	8	25n			10m†		-55	125	1	G04311	TO91
55	NE8416A	4		MON	3.6%	.35*†	DTL	5Δ		0	6	60n		75n	45m	1.4	0	75	2	G04258a	TO116
56	NE8416J	4		MON	3.6%	.35*†	DTL	5Δ		0	6	60n		75n	45m	1.4	0	75	2	G04258	TO88
57	SE8416A	4		MON	3.6%	.35*†	DTL	5Δ		0	6	60n		75n	45m	1.4	-55	125	2	G04258a	TO116
58	SE8416J	4		MON	3.6%	.35*†	DTL	5Δ		0	6	60n		75n	45m	1.4	-55	125	2	G04258	TO88
59	CS715K	4		MON	3.9%	.4†*	DTL	3Δ	15	0	8	35n	10n	10n		1.0 Δ	-55	125	2	G04227d	CN17
60#	FFH102A2	4		MON	3.9%	.40*	DTL	5Δ	5	8.0	8.0	20n			7.5m	1.0	-55	125	1	G04141	TO74
61#	FFH102C1	4		MON	3.9%	.40*	DTL	5Δ	5	8.0	8.0	20n			7.5m	1.0	-55	125	1	G04141	TO91
62#	FFH112A2	4		MON	3.9%	.40*	DTL	3†	5	8.0	8	20n			15m	1.0	-55	125	2	G04290	TO74
63#	FFH112C1	4		MON	3.9%	.40*	DTL	3†	5	8.0	8	20n			15m	1.0	-55	125	2	G04290	TO91
64#	FFH141A2	4		MON	3.9%	.40*	DTL	2	5	1.5	4.5	24n			15m	1.0	0	75	2	G04138	TO74
65#	FFH141C1	4		MON	3.9%	.40*	DTL	2	5	1.5	4.5	24n			15m	1.0	0	75	2	G04138	TO91
66#	FFH142A2	4		MON	3.9%	.40*	DTL	2	5	8.0	8	20n			15m	1.0	-55	125	2	G04138	TO74
67#	FFH142C1	4		MON	3.9%	.40*	DTL	2	5	8.0	8	20n			15m	1.0	-55	125	2	G04138	TO91
68	NE156A	4		MON	3.9%	.45*†	DTL	5Δ	19	0	6.2	80nΔ			68m†		0	70	2	G04227c	TO116
69	NE156J	4		MON	3.9%	.45*†	DTL	5Δ	19	0	6.2	80nΔ			68m†		0	70	2	G04227b	TO88
70	NE157K	4		MON	3.9%	.45†*	DTL	3	15	0	6				250m		0	70	2	G04227e	CN17
71	SE155J	4		MON	3.9%	.45*†	DTL	4	20	0	8.2				134m		-55	125	2	G04227a	TO88
72	SE156J	4		MON	3.9%	.45†*	DTL	5Δ	20	0	8	20n			250m	1.0 Δ	-55	125	2	G04227b	TO88
73	SE157K	4		MON	3.9%	.45†*	DTL	3	15	0	8	20n			250m	1.0 Δ	-55	125	2	G04227e	CN17
74	NE150G	4		MON	3.9%	.55†*	DTL	2	20	6	6				250m		0	70	1	G04226	TO91
75	NE150K	4		MON	3.9%	.55†*	DTL	2	20	6	6	35n%			250m	1.0 Δ	0	70	1	G04226	CN17
76	SE150G	4		MON	3.9%	.55†*	DTL	2	20	0	8	35n%			250m	1.0 Δ	-55	125	1	G04226	TO91
77	SE150K	4		MON	3.9%	.55†*	DTL	2	20	0	8	35n			250m	1.0 Δ	-55	125	1	G04226	TO91
78	TNG5411F	4		MON	5.0%	.6*†	TTL	4	36	0	8	16nΔ			60m†	450mΔ	-55	125	2	G0478s	FP21c
79	TNG5411P	4		MON	5.0%	.6*†	TTL	4	36	0	8	16nΔ			60m†	450mΔ	-55	125	2	G0478s	TO116
80	TNG5412F	4		MON	5.0%	.6*†	TTL	4	36	0	7	16nΔ			60m†	450mΔ	0	75	2	G0478s	FP21c
81	TNG5412P	4		MON	5.0%	.6*†	TTL	4	36	0	7	16nΔ			60m†	450mΔ	0	75	2	G0478s	TO116
82	TNG5421F	4		MON	5.0%	.6*†	TTL	2	36	0	8	16nΔ			60m†	450mΔ	-55	125	2	G0478m	FP21c
83	TNG5421P	4		MON	5.0%	.6*†	TTL	2	36	0	8	16nΔ			60m†	450mΔ	-55	125	2	G0478m	TO116
84	TNG5422F	4		MON	5.0%	.6*†	TTL	2	36	0	7	16nΔ			60m†	450mΔ	0	75	2	G0478m	FP21c
85	TNG5422P	4		MON	5.0%	.6*†	TTL	2	36	0	7	16nΔ			60m†	450mΔ	0	75	2	G0478m	TO116
86	TNG5611F	4		MON	5.0%	.6*†	TTL	2	36	0	8	16nΔ			120m†	450mΔ	-55	125	4	G04330	FP21c
87	TNG5611P	4		MON	5.0%	.6*†	TTL	2	36	0	8	16nΔ			120m†	450mΔ	-55	125	4	G04330	TO116
88	TNG5612F	4		MON	5.0%	.6*†	TTL	2	36	0	7	16nΔ			120m†	450mΔ	0	75	4	G04330	FP21c
89	TNG5612P	4		MON	5.0%	.6*†	TTL	2	36	0	7	16nΔ			120m†	450mΔ	0	75	4	G04330	TO116
90	SN341A	4		MON	6.0	.10	DTL	7	6	3	6	150n			12m	500m	-65	150	1	G04199	ZB6
91	SN347A	4		MON	6.0	.10	DTL	5	6	3	6	140n			44m	500m	-65	150	2	G04215a	ZB6
92	SN359A	4		MON	6.0	.10	DTL	4	6	3	6	150n			44m	500m	-65	150	1	G04215	ZB6
93	302CN	4		MON	6.5%	5.0*	DTL	3Δ		0.0	12						-30	85	4	G04329	M204
94	323BG	4		MON	6.5%	5.0*	DTL	3Δ	5	0.0	12	100n			320m	5.0 Δ	-55	125	4	G04316	CN69
95	323BJ	4		MON	6.5%	5.0*	DTL	3Δ	5	0.0	12	100n			320m	5.0 Δ	-55	125	4	G04316	M172
96	323BN	4		MON	6.5%	5.0*	DTL	3Δ	5	0.0	12	100n			320m	5.0 Δ	-55	125	4	G04316	M204
97	323CG	4		MON	6.5%	5.0*	DTL	3Δ	5	0.0	12	100n			320m	5.0 Δ	-30	85	4	G04316	CN69
98	323CN	4		MON	6.5%	5.0*	DTL	3Δ	5	0.0	12	100n			320m	5.0 Δ	-30	85	4	G04316	M204
99	SD301BG	4		MON	6.5%	5.0*	DTL	6Δ		0.0	12	100n					-55	125	2	G04238	CN50
100	SD301BJ	4		MON	6.5%	5.0*	DTL	6Δ		0.0	12	100n					-55	125	2	G04238	M172
101	SD301CG	4		MON	6.5%	5.0*	DTL	6Δ		0.0	12	100n					-30	100	2	G04238	CN50
102	SD301CJ	4		MON	6.5%	5.0*	DTL	6Δ		0.0	12	100n					-30	100	2	G04238	M172
103	SD302BG	4		MON	6.5%	5.0*	DTL	3Δ		0.0	12						-55	125	4	G04380a	CN50
104	SD302BJ	4		MON	6.5%	5.0*	DTL	3Δ		0.0	12						-55	125	4	G04380a	M172
105	SD302CG	4		MON	6.5%	5.0*	DTL	3Δ		0.0	12						-30	100	4	G04380a	CN50
106	SD302CJ	4		MON	6.5%	5.0*	DTL	3Δ		0.0	12						-30	100	4	G04380a	M172
107	SD303BG	4		MON	6.5%	5.0*	DTL	3Δ		0.0	12						-55	125	4	G04380	CN50
108	SD303BJ	4		MON	6.5%	5.0*	DTL	3Δ		0.0	12						-55	125	4	G04380	M172
109	SD303CG	4		MON	6.5%	5.0*	DTL	3Δ		0.0	12						-30	100	4	G04380	CN50
110	SD303CJ	4		MON	6.5%	5.0*	DTL	3Δ		0.0	12						-30	100	4	G04380	M172

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPER-ATING FREQ. (Hz)	3 PRO-CESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPA-GATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	SD321BG	4		MON	6.5%	5.0*	DTL	3Δ		0.0	12	160n					-55	125	4	G04237	CN50
2	SD321BJ	4		MON	6.5%	5.0*	DTL	3Δ		0.0	12	160n					-55	125	4	G04237	M172
3	SD321CG	4		MON	6.5%	5.0*	DTL	3Δ		0.0	12	160n					-30	100	4	G04237	CN50
4	SD321CJ	4		MON	6.5%	5.0*	DTL	3Δ		0.0	12	160n					-30	100	4	G04237	M172
5	SD322BG	4		MON	6.5%	5.0*	DTL	6Δ		0.0	12	160n					-55	125	2	G04236	CN50
6	SD322BJ	4		MON	6.5%	5.0*	DTL	6Δ		0.0	12	160n					-55	125	2	G04236	M172
7	SD322CG	4		MON	6.5%	5.0*	DTL	6Δ		0.0	12	160n					-30	100	2	G04236	CN50
8	SD322CJ	4		MON	6.5%	5.0*	DTL	6Δ		0.0	12	160n					-30	100	2	G04236	M172
9	SD323BG	4		MON	6.5%	5.0*	DTL	3Δ		0.0	12						-55	125	4	G04316	CN50
10	SD323BJ	4		MON	6.5%	5.0*	DTL	3Δ		0.0	12						-55	125	4	G04316	M172
11	SD323CG	4		MON	6.5%	5.0*	DTL	3Δ		0.0	12						-30	100	4	G04316	CN50
12	SD323CJ	4		MON	6.5%	5.0*	DTL	3Δ		0.0	12						-30	100	4	G04316	M172
13	SD324BG	4		MON	6.5%	5.0*	DTL	3Δ		0.0	12						-55	125	4	G04381	CN50
14	SD324BJ	4		MON	6.5%	5.0*	DTL	3Δ		0.0	12						-55	125	4	G04381	M172
15	SD324CG	4		MON	6.5%	5.0*	DTL	3Δ		0.0	12						-30	100	4	G04381	CN50
16	SD324CJ	4		MON	6.5%	5.0*	DTL	3Δ		0.0	12						-30	100	4	G04381	M172
17	SD325BG	4		MON	6.5%	5.0*	DTL	3†		0.0	12	160n					-55	125	4	G04382	CN50
18	SD325BJ	4		MON	6.5%	5.0*	DTL	3†		0.0	12	160n					-55	125	4	G04382	M172
19	SD325CG	4		MON	6.5%	5.0*	DTL	3†		0.0	12	160n					-30	100	4	G04382	CN50
20	SD325CJ	4		MON	6.5%	5.0*	DTL	3†		0.0	12	160n					-30	100	4	G04382	M172
21	SD326BG	4		MON	6.5%	5.0*	DTL	3†		0.0	12						-55	125	4	G04383	CN50
22	SD326BJ	4		MON	6.5%	5.0*	DTL	3†		0.0	12						-55	125	4	G04383	M172
23	SD326CG	4		MON	6.5%	5.0*	DTL	3†		0.0	12						-30	100	4	G04383	CN50
24	SD326CJ	4		MON	6.5%	5.0*	DTL	3†		0.0	12						-30	100	4	G04383	M172
25	321BG	4		MON	11.3	1.2†	DTL	3Δ	5	0.0	12	250nΔ			384m	5.0 Δ	-55	125	4	G04237	CN69
26	321BJ	4		MON	11.3	1.2†	DTL	3Δ	5	0.0	12	250nΔ			384m	5.0 Δ	-55	125	4	G04237	M172
27	321BN	4		MON	11.3	1.2†	DTL	3Δ	5	0.0	12	250nΔ			384m	5.0 Δ	-55	125	4	G04237	M204
28	321CG	4		MON	11.3	1.2†	DTL	3Δ	5	0.0	12	220nΔ			384m	5.0 Δ	-30	85	4	G04237	CN69
29	321CN	4		MON	11.3	1.2†	DTL	3Δ	5	0.0	12	220nΔ			384m	5.0 Δ	-30	85	4	G04237	M204
30	322BG	4		MON	11.3	1.2†	DTL	6Δ	5	0.0	12	250nΔ			96m	5.0 Δ	-55	125	2	G04236	CN69
31	322BJ	4		MON	11.3	1.2†	DTL	6Δ	5	0.0	12	250nΔ			96m	5.0 Δ	-55	125	2	G04236	M172
32	322BN	4		MON	11.3	1.2†	DTL	6Δ	5	0.0	12	250nΔ			96m	5.0 Δ	-55	125	2	G04236	M204
33	322CG	4		MON	11.3	1.2†	DTL	6Δ	5	0.0	12	220nΔ			96m	5.0 Δ	-30	85	2	G04236	CN69
34	322CN	4		MON	11.3	1.2†	DTL	6Δ	5	0.0	12	220nΔ			96m	5.0 Δ	-30	85	2	G04236	M204
35#	MP102	4		MON	-15	-2	MOS	6		24	0	500n			12m	1.0	-55	125	2	G04334	TO100
36	TA5388	4		MOS					50	15	15						-55	125		K0697	M135
37	DM8810	4		MOS	2.0%	.80*	TTL	2		0.0	5.0	20n					0	70	4	G04387c	M126d
38	DM8811	4		MOS	2.0%	.80*	TTL	2		0.0	5.0	20n					0	70	4	G04387a	M126d
39	MC2597G	4		MOS	9.9%	.01*†		2		0.0	10		200n	200n	100n%	4.5 Δ	-55	125	2	G04405	CN57
40	MC14011L	4		MOS	9.9%	.01*†		2	50	0.0	10	50n	250n	250n	1.0u%		-55	125	4	G04433	M157a
41	CD4011E	4		MOS	10	0.0†	TTL	2	50	0.0	10	130n	20n	20n	10u%	7.0	-40	80	4	G043ax	Δ001ab
42	CD4012E	4		MOS	10	0.0†	TTL	4	50	0.0	10	260n	20n	20n	10u%	7.0	-40	80	2	G043aw	Δ001ab
43	CD4011	4		MOS	10	.01*†	TTL	8	50	0.0	10	65n	20n	20n	1.0u%		-55	125	4	G04404	Δ001AD
44	CD4011D	4		MOS	10	.01*†	TTL	8	50	0.0	10	65n	20n	20n	1.0u%		-55	125	4	G04404	Δ001AD
45	CD4012	4		MOS	10	.01*†	TTL	8	50	0.0	10	130n	20n	20n	1.0u%		-55	125	2	G04403	Δ001AD
46	CD4012D	4		MOS	10	.01*†	TTL	8	50	0.0	10	130n	20n	20n	1.0u%		-55	125	2	G04403	Δ001AD
47	SCL4011D	4		MOS	10	.01†*	TTL	2	50†	0.0	10	160nΔ	260n	260n	1.0u%	7.0	-55	125	4	G043z	TO116
48	SCL4011F	4		MOS	10	.01†*	TTL	2	50†	0.0	10	160nΔ	260n	260n	1.0u%	7.0	-55	125	4	G043z	TO86
49	SCL4012D	4		MOS	10	.01†*	TTL	4	50†	0.0	10	260nΔ	260n	260n	1.0u%	7.0	-55	125	2	G043aw	TO116
50	SCL4012F	4		MOS	10	.01†*	TTL	4	50†	0.0	10	260nΔ	260n	260n	1.0u%	7.0	-55	125	2	G043aw	TO86
51	462002	4		PCB	2.4%	.30*		2		0.0	4.0	25n	45n	40n	12mΔ		0	70	4		TO84
52	462003	4		PCB	2.4%	.30*		3		0.0	4.0	25n	45n	40n	12mΔ		0	70	3		TO84
53	462004	4		PCB	2.4%	.30*		5		0.0	4.0	25n	45n	40n	12mΔ		0	70	2		TO84
54	1026-0004	4		PCB	6.5	0.0	DTL	6†	6	13	13	75n	75n				-55	85	8	G0450	
55	1026-0005	4		PCB	6.5	0.0	DTL	3†	5	13	13	75n	75n				-55	85	10	G0451	
56	CL805	4		PCM			DTL	2	8	0.0	5.0	30n			160m		0	75	8		CB⧄
57	CL806	4		PCM			DTL	2	7	0.0	5.0	20n			240m		0	75	8		CB⧄
58	CL809	4		PCM			DTL	3	8	0.0	5.0	30n			120m		0	75	6		CB⧄
59	CL810	4		PCM			DTL	3	7	0.0	5.0	20n			180m		0	75	6		CB⧄
60	CL813	4		PCM			DTL	5Δ	8	0.0	5.0	30n			80m		0	75	4		CB⧄
61	CL814	4		PCM			DTL	5Δ	7	0.0	5.0	20n			120m		0	75	4		CB⧄
62	CL817	4		PCM			DTL	5Δ	25	0.0	5.0	35n			300m		0	75	4		CB⧄
63	CL825	4		PCM			DTL	5Δ	27	0.0	5.0	25n			224m		0	75	4		CB⧄
64	8102	4		TFH	15	0.0	RTL	4		0	20		1.0u	1.0u			-55	100	1	G04203	M6
65	B655	4	1.0k	PCB	-6.0	0.0	DTL	3	4	12	6.0				200m	2.0	-15	60	2	G0456	CB22
66	DC01CSNG2	4	20k	PCB	6.0	0.0		3Δ	4	12	12	500n	1.5u	1.0u		1.0	-55	100	8	G048a	
67	DC01CSXNG2	4	20k	PCB	6.0	0.0		3Δ	4	12	12	500n	1.5u	1.0u		1.0	-55	100	8	G048a	
68	DC01CNG2	4	20k	PCB	-6.0	0.0		3Δ	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	8	G048a	
69	DC01CXNG2	4	20k	PCB	-6.0	0.0		3Δ	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	8	G048a	
70	DC01MSNG2	4	20k	PCM	6.0	0.0		2	4	12	12	500n	1.0u	1.0u		1.0	-55	100	2		
71	DC01MNG2	4	20k	PCM	-6.0	0.0		2	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	2		
72	MMD12	4	25k	3DM	0.0	6.0	RTL	3	4	12	12	200n	2.0u	500n	100m	1.0	0	65			
73	Q411	4	25k	3DM	0.0	-6.0	RTL	3	4	12	12	3.5u	2.0u	5.0u	45m		-20	65	1	G04182	M59a
74	Q414	4	25k	3DM	0.0	-12	RTL	3	4	12	12	3.5u	2.0u	10u	36m		-20	65	1	G04182a	M59a
75	MM111	4	50k	3DM	0.0	-6.0	RTL	5	4	12	12	400n	500n	4.0u	150m	1.0	0	55	1	G045	M1
76	MM112	4	50k	3DM	0.0	-6.0	RTL	3	4	12	12	400n	500n	4.0u	300m	1.0	0	55	2	G046a	M2
77	NAND4	4	50k	3DM	2.8	.20	DTL	4	6	0	3.0	5.0u	250n	250n		400m	-20	85	1	G04440	M12
78	DN25	4	100k	PCB	0.0	-10	DTL	2	10	12	6.0	120n	1.0u	4.0u	460m	1.5	-20	55	10		CB10
79	DC1CNG2	4	100k	PCB	-6.0	0.0		3Δ	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	8		
80	DC1CNG4	4	100k	PCB	-6.0	0.0		5Δ	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	3		
81	G123	4	100k	PCB	-6.0	0.0	DTL	3Δ		12	6.0	20n	20n	50n	2.3		-55	71	6		CB16
82	G325	4	100k	PCB	-6.0	0.0	DTL	4	4	12	6.0	800n	600n	1.4u	975m		-55	71	6		CB16
83	GA123	4	100k	PCB	-6.0	0.0	DTL	3Δ		12	6.0	20n	20n	50n	2.3		-55	71	6		CB16
84	GA325	4	100k	PCB	-6.0	0.0	DTL	4	4	12	6.0	800n	600n	1.4u	975m		-55	71	6		CB16
85	NG682	4	100k	PCB	-6.0	0.0	DTL	3Δ	7	12	12	600n	1.0u	2.0u	400m	1.5	-45	65	8	G042	CB1
86	NG683	4	100k	PCB	-6.0	0.0	DTL	4Δ	7	12	12	600n	1.0u	2.0u	400m	1.5	-45	65	8	G041a	CB1
87	NG684	4	100k	PCB	-6.0	0.0	DTL	4	7	12	12	600n	1.0u	2.0u	400m	1.5	-45	65	8	G041	CB1
88	DN23	4	100k	PCB	-10	0.0	DTL	3Δ	10	12	6.0	120n	1.0u	4.0u	370m	1.5	-20	55	8	G0439	CB10
89	DC1MNG2	4	100k	PCM	-6.0	0.0		2	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	2		
90	DC1MNG4	4	100k	PCM	-6.0	0.0		4	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	1		
91	Q421	4	100k	3DM	0.0	-6.0	RCT	3	4	12	12	1.5u	500n	1.0u	165m		-20	65	1	G04182	M59a
92	NA11-1	4	100k	3DM	-12	0.0	DTL	4Δ	6	12	12	100n	200n	500n	225m	2.0	-35	65	1	G04130a	M15
93	NA11-2	4	100k	3DM	-12	0.0	DTL	7Δ	6	12	12	100n	200n	500n	225m	2.0	-35	65	1	G04130b	M15
94	NA12-1	4	100k	3DM	-12	0.0	DTL	3Δ	6	12	12	100n	200n	500n	450m	2.0	-35	65	2	G04130c	M15
95	DI21	4	200k	PCB	-3.0	0.0	DTL	2	7	18	12	600n	500n†	800n†	600m	1.5 *	-20	55	8	G04268a	CB13a
96	DL20	4	200k	PCB	-6.0	0.0	DTL	3†	7	18	12	600n	500n†	800n†	600m	1.5 *	-20	55	8	G04268b	CB13a
97	4CDH	4	200k	PCB	-10	0.0	RTL			12	12						0	50	4	G04201	CB19
98	GNA1-.2	4	200k	PCB	-10	0.0	DTL	4†	10	12	6.0	200n	1.0u	500n	720m	2.0	0	55	9		
99	S26M	4	200k	PCB	-10	0.0	DTL			12	12				450m		0	50	6	G0444	CB19
100	S34M	4	200k	PCB	-10	0.0	DTL			12	12				300m		0	50	4	G0445	CB19
101	S53M	4	200k	PCB	-10	0.0	DTL			12	12						0	50	3	G0446	CB19
102	GA18	4	200k	PCB	-12	0.0	DTL	3	6	12	6.0	300n			240m		-10	55	8	G04134	CB33
103	CT438-3	4	250k	PCB	-3.0	-11	DTL	4		12	12	200n	1.0u		522m		-54	71	3		CB16
104	EM2503	4	250k	3DM	0.0	-6.0	DTL	3	10	12	6.0	300n	300n	1.0u	354m	500m	-55	71	2	G0424	M62a
105	EM2503A	4	250k	3DM	0.0	-6.0	DTL	5	10	12	6.0	300n	300n	1.0u	177m	500m	-55	71	1	G0424a	M62a
106	EM2507	4	250k	3DM	0.0	-6.0	RTL	3	10	12	6.0	300n	300n	1.0u	380m	500m	-55	71	2	G04219	M62b
107	MM211	4	250k	3DM	0.0	-6.0	RTL	5	4	12	12	250n	400n	2.5u	180m	1.0	-54	71	1	G045	M1
108	MM212	4	250k	3DM	0.0	-6.0	RTL	3	4	12	12	150n	250n	1.5u	206m		-54	71	2	G046a	M2
109	T438	4	250k	3DM	-3.0	-11	DTL	4		12	12	200n	1.0u		174m		-54	71	1	G0442	M17
110	SDN21	4	300k	PCB	0.0	8.0	DTL	4†	10	12	12	75n	300n	1.0u	150m	1.5	-40	75	4		

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	SDN23	4	300k	PCB	0.0	8.0	DTL	3Δ	10	12	12	75n	300n	1.0u	350m	1.5	-40	75	8	G0439	
2	SDN25	4	300k	PCB	0.0	8.0	DTL	2	10	12	12	75n	300n	1.0u	440m	1.5	-40	75	10		
3	DN5	4	300k	PCB	0.0	-10	DTL	2	10	12	6.0	75n	300n	1.0u	125m	1.5	-20	55	10		CB10
4	DN3	4	300k	PCB	-10	0.0	DTL	3Δ	10	12	6.0	75n	300n	1.0u	740m	1.5	-20	55	8	G0439	CB10
5	NG782	4	500k	PCB	-6.0	0.0	DTL	3Δ	7	12	12	300n	350n	350n	850m	1.5	-45	65	8	G042	CB1
6	NG783	4	500k	PCB	-6.0	0.0	DTL	4Δ	7	12	12	300n	350n	350n	850m	1.5	-45	65	8	G041a	CB1
7	NG784	4	500k	PCB	-6.0	0.0	DTL	4	7	12	12	300n	350n	350n	850m	1.5	-45	65	8	G041	CB1
8	MM311	4	500k	3DM	0.0	6.0	RCT	5	4	12	12	250n	150n	1.3u	200m	1.0	-25	125	1	G045a	M1
9	MM312	4	500k	3DM	0.0	6.0	RTL	3	4	12	12	150n	150n	80n	205m		-25	125	2	G046b	M2
10	PL4G01#1	4	750k†	MON	-12*	-3.0*	TTL	4		30	0.0				350m		-55	125	2	G04223	TO86
11	PL4G01#2	4	750k†	MON	-12*	-3.0*	TTL	4		30	0.0				350m		-55	125	2	G04223	FP33
12	500CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	4	6	0.0	6.8	180n			2.0m		0	70	2	G04317	M205
13	501CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	2	6	0.0	6.8	180n			4.0m		0	70	4	G04317d	M205
14	503CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	3	6	0.0	6.8	180n			3.0m		0	70	3	G04317f	M205
15	504CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	4	6	0.0	6.8	140n			2.4m		0	70	2	G04317a	M205
16	505CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	2	6	0.0	6.8	140n			4.8m		0	70	4	G04317e	M205
17	507CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	3	6	0.0	6.8	140n			3.6m		0	70	3	G04317g	M205
18	530CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	4	6	0.0	6.8	75n			4.4m		0	70	2	G04317	M205
19	531CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	2	6	0.0	6.8	75n			8.8m		0	70	4	G04317d	M205
20	533CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	3	6	0.0	6.8	75n			6.6m		0	70	3	G04317f	M205
21	535CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	2	7	0.0	6.8	60n			12m		0	70	4	G04317e	M205
22	537CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	3	7	0.0	6.8	60n			9.0m		0	70	3	G04317g	M205
23	540CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	5Δ	17	0.0	6.8	70n			12m		0	70	2	G04321	M205
24	541CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	5Δ	17	0.0	6.8	70n			16m		0	70	2	G04321a	M205
25	543CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	5Δ	7	0.0	6.8	85n			4.6m		0	70	2	G04317b	M205
26	544CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	5Δ	7	0.0	6.8	75n			6.0m		0	70	2	G04317c	M205
27	547CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	5Δ	45	0.0	6.8	60n			19m		0	70	2	G04317c	M205
28	548CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	5Δ	45	0.0	6.8	60n			16m		0	70	2	G04317b	M205
29	570CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	4	7	0.0	6.8	25n			11m		0	70	2	G04317	M205
30	571CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	2	7	0.0	6.8	25n			22m		0	70	4	G04317d	M205
31	573CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	3	7	0.0	6.8	25n			16m		0	70	3	G04317f	M205
32	574CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	4	7	0.0	6.8	25n			13m		0	70	2	G04317a	M205
33	575CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	2	7	0.0	6.8	25n			27m		0	70	4	G04317e	M205
34	577CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	3	7	0.0	6.8	25n			20m		0	70	3	G04317g	M205
35	580CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	5Δ	33	0.0	6.8	45n			44m		0	70	2	G04320	M205
36	583CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	5Δ	7	0.0	6.8	30n			11m		0	70	2	G04317b	M205
37	584CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	5Δ	7	0.0	6.8	30n			13m		0	70	2	G04317c	M205
38	587CJ	4	1.0MΔ	MON	1.8%	1.0*	TTL	5Δ	36	0.0	6.8	55n			34m		0	70	2	G04317b	M205
39	SCL5102	4	1.0M	MOS	7.0%	3.0*	TTL	2	10	0.0	10	50n			100n%	4.0 Δ	-55	125	4	G04396	TO86
40	SCL5102D	4	1.0M	MOS	7.0%	3.0*	TTL	2	10	0.0	10	50n			100n%	4.0 Δ	-55	125	4	G04396	M170
41	SCL5104	4	1.0M	MOS	7.0%	3.0*	TTL	3	10	0.0	10	50n			100n%	4.0 Δ	-55	125	2	G04397	TO86
42	SCL5104D	4	1.0M	MOS	7.0%	3.0*	TTL	3	10	0.0	10	50n			100n%	4.0 Δ	-55	125	2	G04397	M170
43	SCL5106	4	1.0M	MOS	7.0%	3.0*	TTL	4	10	0.0	10	50n			100n%	4.0 Δ	-55	125	2	G04398	TO86
44	SCL5106D	4	1.0M	MOS	7.0%	3.0*	TTL	4	10	0.0	10	50n			100n%	4.0 Δ	-55	125	2	G04398	M170
45	NAND2Z	4	1.0M	PCB	0.0	-6.0	DTL	3†	6	15	6	150n	200n	200n	1.0	1.5	0	50	9	G0438	CB14
46	4123	4	1.0M	PCB	-3.0	0.0	MTL	18	8	15	10				640m	500m	-20	55	1	G0493	CB30
47	4125	4	1.0M	PCB	-3.0	0.0	MTL	7	8	15	10				936m	500m	-20	55	2	G0494	CB30
48	4127	4	1.0M	PCB	-3.0	0.0	MTL	2	9	15	10				1.3	500m	-20	55	6	G0499	CB30
49	DI31	4	1.0M	PCB	-3.0	0.0	DTL	2	7	18	12	100n	100n†	150n†	1.4	1.5 *	-20	55	8	G04268a	CB13a
50	DL30	4	1.0M	PCB	-6.0	0.0	DTL	3†	7	18	12	100n	100n†	150n†	1.4	1.5 *	-20	55	8	G04268b	CB13a
51	G208	4	1.0M	PCB	-6.0	0.0	RCT	10	10	12	6	250n	100n	300n	510m		-55	71	3		CB16
52	G223	4	1.0M	PCB	-6.0	0.0	RCT	10	10	12	6	250n	100n	300n	675m		-55	71	4		CB16
53	GA208	4	1.0M	PCB	-6.0	0.0	RCT	10	10	12	6.0	250n	100n	300p	510m		-55	71	3		CB16
54	GA223	4	1.0M	PCB	-6.0	0.0	RCT	10	10	12	6.0	250n	100n	300p	675m		-55	71	4		CB16
55	MC62☒	4	1.0M	PCB	-6.2	0.0	DTL	2	8	18	18	20n	100n	100n	2.7	2.5 *	0	55	12		CB25
56	MC63☒	4	1.0M	PCB	-6.2	0.0	DTL	3	8	18	18	20n	100n	100n	1.8	2.5 *	0	55	1		CB25
57	MC64☒	4	1.0M	PCB	-6.2	0.0	DTL	2	15	18	18	20n	100n	100n	1.3	2.5 *	0	55	10		CB25
58	GNA1-1	4	1.0M	PCB	-10	0.0	DTL	4†	8	12	6.0	100n	250n	200n	973m	2.0	0	55	9	G04216	CB15
59	S26H	4	1.0M	PCB	-10	0.0	DTL			12	12				850m		0	50	6	G0444	CB19
60	S34H	4	1.0M	PCB	-10	0.0	DTL			12	12				550m		0	50	4	G0445	CB19
61	S53H	4	1.0M	PCB	-10	0.0	DTL			12	12						0	50	3	G0446	CB19
62	8105	4	1.0M	TFH	-1.0	0.0	DTL	3	4	2	20		400n	100n	240m		-55	125	1		M6
63	Q481	4	1.0M	3DM	0.0	6.0	DTL	2	15	12	12	100n	300n	100n	250m		-55	125	1	G04184	M59
64	NAND2M	4	1.0M	3DM	0.0	-6.0	DTL	3†	6	15	6.0	150n	200n	200n	350m	1.5	0	50	3	G0438a	
65	Q431	4	1.0M	3DM	0.0	-6.0	DTL	3	4	12	12	100n	100n	300n	200m		-20	65	1	G04183	M59
66	Q435	4	1.0M	3DM	0.0	-6.0	DTL	6	4	12	12		100n	300n	200m	1.0m	-20	65	1	G04343	M59
67	SDN3	4	1.5M	PCB	0.0	8.0	DTL	3Δ	10	12	12	100n%	150n	250n	1.1	1.5	-40	75	8	G0439	CB10
68	SDN5	4	1.5M	PCB	0.0	8.0	DTL	2	10	12	12	100n%	150n	250n	1.4	1.5	-40	75	10		CB10
69	DF320	4	2.0M	MOH	6.3	0.0	DTL	3	16	0.0	6.0	75nΔ			228m		0	55	8	G043am	CB13
70	DG320	4	2.0M	MOH	6.3	0.0	DTL	8†	5	0.0	6.0	75nΔ			420m		0	55	4	G04413	CB13
71	DI320	4	2.0M	MOH	6.3	0.0	DTL	3Δ	10	0.0	6.0	75nΔ			290m		0	55	10	G04407	CB13
72	DK320	4	2.0M	MOH	6.3	0.0	DTL	3†	14	0.0	6.0	75nΔ			564m		0	55	14	G04408	CB13
73	DL320	4	2.0M	MOH	6.3	0.0	DTL	5Δ	6	0.0	6.0	75nΔ			175m		0	55	6	G04407a	CB13
74	TG320	4	2.0M	MOH	6.3	0.0	DTL	5	14	0.0	6.0	75nΔ			405m		0	55	4	G04409	CB13
75	TG321	4	2.0M	MOH	6.3	0.0	DTL	12	16	0.0	6.0	75nΔ			462m		0	55	2		CB13
76	LCE203	4	2.0M	MOH	-6.0	0.0†		5		12	6	20n					-10	55	1		CN27
77	324BG	4	2.0M	MON	10.5	.50†	DTL	3Δ	1	0.0	12	110n	100n	60n	160m	5.0 Δ	-55	125	4	G04381	CN69
78	324BJ	4	2.0M	MON	10.5	.50†	DTL	3Δ	1	0.0	12	110n	100n	60n	160m	5.0 Δ	-55	125	4	G04381	M172
79	324BN	4	2.0M	MON	10.5	.50†	DTL	3Δ	1	0.0	12	110n	100n	60n	160m	5.0 Δ	-55	125	4	G04381	M204
80	324CG	4	2.0M	MON	10.5	.50†	DTL	3Δ	1	0.0	12	110n	100n	60n	160m	5.0 Δ	-30	85	4	G04381	CN69
81	324CN	4	2.0M	MON	10.5	.50†	DTL	3Δ	1	0.0	12	110n	100n	60n	160m	5.0 Δ	-30	85	4	G04381	M204
82	326BG	4	2.0M	MON	10.5%	.50†	DTL	3†	1	0.0	12	110n	100n	60n	160m	5.0 Δ	-55	125	4	G04383	CN69
83	326BJ	4	2.0M	MON	10.5%	.50†	DTL	3†	1	0.0	12	110n	100n	60n	160m	5.0 Δ	-55	125	4	G04383	M172
84	326BN	4	2.0M	MON	10.5%	.50†	DTL	3†	1	0.0	12	110n	100n	60n	160m	5.0 Δ	-55	125	4	G04383	M204
85	326CG	4	2.0M	MON	10.5%	.50†	DTL	3†	1	0.0	12	110n	100n	60n	160m	5.0 Δ	-30	85	4	G04383	CN69
86	326CN	4	2.0M	MON	10.5%	.50†	DTL	3†	1	0.0	12	110n	100n	60n	160m	5.0 Δ	-30	85	4	G04383	M204
87	303BG	4	2.0M	MON	10.5%	.80†	DTL	3Δ	1	0.0	12	140n	160n	180n	400m	5.0 Δ	-55	125	4	G04380	CN69
88	303BN	4	2.0M	MON	10.5%	.80†	DTL	3Δ	1	0.0	12	140n	160n	180n	400m	5.0 Δ	-55	125	4	G04380	M204
89	303CG	4	2.0M	MON	10.5%	.80†	DTL	3Δ	1	0.0	12	140n	160n	180n	400m	5.0 Δ	-30	85	4	G04380	CN69
90	303CN	4	2.0M	MON	10.5%	.80†	DTL	3Δ	1	0.0	12	140n	160n	180n	400m	5.0 Δ	-30	85	4	G04380	M204
91	325BG	4	2.0M	MON	11.3	1.2†	DTL	3†	1	0.0	12	250nΔ	90n	70n	160m	5.0 Δ	-55	125	4	G04382	CN69
92	325BN	4	2.0M	MON	11.3	1.2†	DTL	3†	1	0.0	12	250nΔ	90n	70n	160m	5.0 Δ	-55	125	4	G04382	M204
93	325CG	4	2.0M	MON	11.3	1.2†	DTL	3†	1	0.0	12	220nΔ	90n	70n	160m	5.0 Δ	-30	85	4	G04382	CN69
94	325CN	4	2.0M	MON	11.3	1.2†	DTL	3†	1	0.0	12	220nΔ	90n	70n	160m	5.0 Δ	-30	85	4	G04382	M204
95	SD5102	4	2.0M	MOS	7.0%	3.0*	MOS	2		0	25						-55	125	4	G043g	TO86
96	DN5A	4	2.0M	PCB	0.0	-10	DTL	2	10	12	6	40n%	100n	250n	1.6	1.5	-20	55	10		CB10
97	DC2CSNG2	4	2.0M	PCB	6.0	0.0		3Δ	6	18	18	50n	150n	250n		1.2	-55	100	8		
98	DC2CSNG4	4	2.0M	PCB	6.0	0.0		5Δ	6	18	18	50n	150n	250n		1.2	-55	100	3		
99	DC2CNG2	4	2.0M	PCB	-6.0	0.0		3Δ	6	18	18	50n	150n	250n		1.2	-55	55	8		
100	DC2CNG4	4	2.0M	PCB	-6.0	0.0		5Δ	6	18	18	50n	150n	250n		1.2	-55	55	3		
101	NG882	4	2.0M	PCB	-6.0	0.0	DIL	3Δ	6	12	12	150n	90n	110n	900m	1.5	-45	65	8	G042	CB1
102	NG883	4	2.0M	PCB	-6.0	0.0	DIL	4Δ	6	12	12	150n	90n	110n	900m	1.5	-45	65	8	G041a	CB1
103	NG884	4	2.0M	PCB	-6.0	0.0	DIL	4	6	12	12	150n	90n	110n	900m	1.5	-45	65	8	G041	CB1
104	DN3A	4	2.0M	PCB	-10	0.0	DTL	3Δ	7	12	6	40n%	100n	250n	1.3	1.5	-20	55	8	G0439	CB10
105	GA28	4	2.0M	PCB	-12	0.0	DTL	3	6	12	6	40n			120m		-10	55	8	G04134	CB33
106	DC2MSNG2	4	2.0M	PCM	6.0	0.0		2	6	18	18	50n	150n	250n		1.2	-55	100	2		
107	DC2MSNG4	4	2.0M	PCM	6.0	0.0		4	6	18	18	50n	150n	250n		1.2	-55	100	1		
108	DC2MNG2	4	2.0M	PCM	-6.0	0.0		2	6	18	18	50n	150n	250n		1.2	-55	55	2		
109	DC2MNG4	4	2.0M	PCM	-6.0	0.0		4	6	18	18	50n	150n	250n		1.2	-55	55	1		
110	EM2603	4	2.0M	3DM	0.0	-6.0	DTL	3	5	12	6	20n	25n	100n	360m	500m	-55	71	2	G0424	M62a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC			FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (s)	MAX.		MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP.		CKT PER MOD	DRAWINGS	
					LEVEL 4 '1' (V)	LEVEL 5 '0' (V)	TYPE	IN	OUT	NEG. (V)	POS. (V)		RISE TIME tr (s)	FALL TIME tf (s)			LOW °C	HI °C		LOGIC DWG. No	OUTLINE DWG. No Δ=MO
1	EM2603A	4	2.0M	3DM	0.0	-6.0	DTL	5	5	12	6	20n	25n	100n	185m	500m	-55	71	1	G0424a	M62a
2	EM3003	4	2.0M	3DM	0.0	-6.0	DTL	3	5	6	12	25n	20n	90n	300m	500m	-55	125	1	G04344	M62a
3	EM3003A	4	2.0M	3DM	0.0	-6.0	DTL	5	5	6	12	25n	20n	90n	324m	500m	-55	125		G04344a	M62a
4	NA21-1	4	2.0M	3DM	12	0.0	DTL	4Δ	5	12	12	10n	50n	20n	65m	2.0	-35	125	1	G04208b	M16
5	NA21-2	4	2.0M	3DM	12	0.0	DTL	7Δ	5	12	12	10n	50n	20n	65m	2.0	-35	125	1	G04208a	M16
6	NA22-1	4	2.0M	3DM	12	0.0	DTL	2	5	12	12	10n	50n	20n	130m	2.0	-35	125	2	G04209	M16
7	301AG	4	4.0M	MON				6	25†	0.0	12	60n†	60n†	60n†	75m	4.0mΔ	55	125	2	G04238	CN50
8	560BE	4	4.0M	MON			TTL	3	9	0	4	15n			1.0m		-55	125	1	G04235	
9	560BH	4	4.0M	MON			TTL	3	9	0	4	15n			1.0m		-55	125	1	G04235	
10	566BE	4	4.0M	MON			TTL	2	9	0	4	60n			1.0m		-55	125	2	G04233	
11	566BH	4	4.0M	MON			TTL	2	9	0	4	60n			1.0m		-55	125	2	G04233	
12	B16701	4	4.0M	MON			TTL	3	9	0.0	4.0	15n			1.0m		-55	125	1	G04235	TO100
13	B46701	4	4.0M	MON			TTL	3	9	0.0	4.0	15n			1.0m		-55	125	1	G04235	FP26a
14	G16701	4	4.0M	MON			TTL	2	9	0.0	4.0	60n			1.0m		-55	125	2	G04233	TO100
15	G46701	4	4.0M	MON			TTL	2	9	0.0	4.0	60n			1.0m		-55	125	2	G04233	FP26a
16	321AG	4	4.0M	MON	11	1.5		3	5†	0.0	12	60n†	60n†	60n†	85m	4.0mΔ	-55	125	4	G04237	CN50
17	322AG	4	4.0M	MON	11	1.5		6	5†	0.0	12	60n†	60n†	60n†	45m	4.0mΔ	-55	125	2	G04236	CN50
18	IE12H	4	5.0M	MOH	0.0	5.0		2Δ									0	100	12		CB7
19	IN6H	4	5.0M	MOH	0.0	5.0		7	12	0.0	5.0	45nΔ			360m	1.0 Δ	0	100	6	G043e	CB7
20	IN6M	4	5.0M	MOH	0.0	5.0		7	12	0.0	5.0	45nΔ			360m	1.0 Δ	0	70	6	G043e	CB7
21	IN12H	4	5.0M	MOH	0.0	5.0		3	12	0.0	5.0	45nΔ			180m	1.0 Δ	0	100	12	G043	CB7
22	IN12M	4	5.0M	MOH	0.0	5.0		3	12	0.0	5.0	45nΔ			180m	1.0 Δ	0	70	12	G043	CB7
23	IE12M	4	5.0M	MOH	0.0	50		2Δ									0	70	12		CB7
24	DJ335	4	5.0M	MOH	6.3	0.0	DTL	4Δ	6	0.0	6.0	24n			450m		0	55	6	G04410	CB13
25	TG336	4	5.0M	MOH	6.3	0.0	DTL	10	4	0.0	6.0	41nΔ			450m		0	55	4	G04411	CB13
26	DC335	4	5.0M	MOH	6.3*	1.1*	DTL	4†	8	0.0	6.3				140m	1.3	0	55	6	G0417	CB13
27	DG335	4	5.0M	MOH	6.3*	1.1*	DTL	6	8	0	6.3	15n			840m	1.3	0	55	4	G0421	CB13
28	DG336	4	5.0M	MOH	6.3*	1.1*	DTL	16†	8	0	6.3	30n			560m	1.3	0	55	2	G0421a	CB13
29	DI335	4	5.0M	MOH	6.3*	1.1*	DTL	2	8	0	6.3	15n			700m	1.3	0	55	10	G043f	CB13
30	DL335	4	5.0M	MOH	6.3*	1.1*	DTL	4	8	0	6.3	15n			420m	1.3	0	55	6	G043p	CB13
31	DN335	4	5.0M	MOH	6.3*	1.1*	DTL	4†	8	0.0	6.3	15n			420m	1.3	0	55	6	G0417	CB13
32	TG335	4	5.0M	MOH	6.3*	1.1*	DTL	5†	32	0	6.3				980m	1.3	0	55	4	G0422	CB13
33	WCT216D	4	5.0M%	MON	2.1	1.0	DTL	3	4	0	12	35n			96m	550m	0	75	3		TO116
34	WCT220D	4	5.0M%	MON	2.1	1.0	DTL	4Δ	8	0	12	38n			96m	550m	0	75	2		TO116
35	WCT226D	4	5.0M%	MON	2.1	1.0	DTL	3	4	0	12	35n			144m	550m	0	75	3		TO116
36	WCT231D	4	5.0M%	MON	2.1	1.0	DTL	5Δ	4	0	12	35n			64m	550m	0	75	2		TO116
37	WCT236D	4	5.0M%	MON	2.1	1.0	DTL	3	4	0	12	35n			144m	550m	0	75	3		TO116
38	WCT246D	4	5.0M%	MON	2.1	1.0	DTL	2	4	0	12	35n			128m	550m	0	75	4		TO116
39	WCT261D	4	5.0M%	MON	2.1	1.0	DTL	5Δ	4	0	12	35n			96m	550m	0	75	2		TO116
40	WC206D	4	5.0M	MON	2.1	1.1	DTL	3	8†	0	6	35n			36m	700m	0	75	3		TO116
41	WC206G	4	5.0M	MON	2.1	1.1	DTL	3	8†	0	6	35n			36m	700m	0	75	3	G0428k	TO84
42	WC210D	4	5.0M	MON	2.1	1.1	DTL	3	14†	0	6	38n			42m	700m	0	75	2		TO116
43	WC210G	4	5.0M	MON	2.1	1.1	DTL	3	14†	0	6	38n			42m	700m	0	75	2	G04205a	TO84
44	WC210T	4	5.0M	MON	2.1	1.1	DTL	3	14†	0	6	38n			42m	700m	0	75	2	G04205a	CN18
45	WC211T	4	5.0M	MON	2.1	1.1	DTL	4	8†	0	6	35n			24m	700m	0	75	2	G0428a	CN18
46	WC216D	4	5.0M	MON	2.1	1.1	DTL	3	8†	0	6	35n			36m	700m	0	75	3		TO116
47	WC216G	4	5.0M	MON	2.1	1.1	DTL	3	8†	0	6	35n			36m	700m	0	75	3	G0428j	TO84
48	WC220D	4	5.0M	MON	2.1	1.1	DTL	4Δ	14†	0	6	38n			42m	700m	0	75	2		TO116
49	WC220G	4	5.0M	MON	2.1	1.1	DTL	4Δ	14†	0	6	38n			42m	700m	0	75	2		TO84
50	WC220T	4	5.0M	MON	2.1	1.1	DTL		14†	0	6	38n			42m	700m	0	75	2		CN18
51	WC221T	4	5.0M	MON	2.1	1.1	DTL	3	8†	0	6	35n			24m	700m	0	75	2	G0428d	CN18
52	WC224D	4	5.0M	MON	2.1	1.1	DTL	10Δ	8†	0	6	35n			12m	700m	0	75	1		TO116
53	WC224G	4	5.0M	MON	2.1	1.1	DTL	10Δ	8†	0	6	35n			12m	700m	0	75	1	G0428h	TO84
54	WC224T	4	5.0M	MON	2.1	1.1	DTL	9Δ	8†	0	6	35n			12m	700m	0	75	1	G0428g	CN18
55	WC226D	4	5.0M	MON	2.1	1.1	DTL	3	8†	0	6	35n			63m	700m	0	75	3		TO116
56	WC226G	4	5.0M	MON	2.1	1.1	DTL	3	8†	0	6	35n			63m	700m	0	75	3	G0464b	TO84
57	WC231D	4	5.0M	MON	2.1	1.1	DTL	5Δ	8†	0	6	35n			24m	700m	0	75	2		TO116
58	WC231G	4	5.0M	MON	2.1	1.1	DTL	5Δ	8†	0	6	35n			24m	700m	0	75	2	G0428c	TO84
59	WC231T	4	5.0M	MON	2.1	1.1	DTL	5Δ	8†	0	6	35n			24m	700m	0	75	2		CN18
60	WC234D	4	5.0M	MON	2.1	1.1	DTL	10Δ	8†	0	6	35n			21m	700m	0	75	1		TO116
61	WC234G	4	5.0M	MON	2.1	1.1	DTL	10Δ	8†	0	6	35n			21m	700m	0	75	1	G0469c	TO84
62	WC234T	4	5.0M	MON	2.1	1.1	DTL	9Δ	8†	0	6	35n			21m	700m	0	75	1		CN18
63	WC236D	4	5.0M	MON	2.1	1.1	DTL	3	8†	0	6	35n			63m	700m	0	75	3		TO116
64	WC236G	4	5.0M	MON	2.1	1.1	DTL	3	8†	0	6	35n			63m	700m	0	75	3	G0464g	TO84
65	WC246D	4	5.0M	MON	2.1	1.1	DTL	2	8†	0	6	35n			48m	700m	0	75	4		TO116
66	WC246G	4	5.0M	MON	2.1	1.1	DTL	2	8†	0	6	35n			48m	700m	0	75	4	G0428n	TO84
67	WC261D	4	5.0M	MON	2.1	1.1	DTL	5Δ	8†	0	6	35n			42m	700m	0	75	2		TO116
68	WC261G	4	5.0M	MON	2.1	1.1	DTL	5Δ	8†	0	6	35n			42m	700m	0	75	2	G0464d	TO84
69	WC266D	4	5.0M	MON	2.1	1.1	DTL	2	8†	0	6	35n			84m	700m	0	75	4		TO116
70	WC266G	4	5.0M	MON	2.1	1.1	DTL	2	8†	0	6	35n			84m	700m	0	75	4	G0464e	TO84
71	WC286D	4	5.0M	MON	2.1	1.1	DTL	1	8†	0	6	35n				700m	0	75	6		TO116
72	WC286G	4	5.0M	MON	2.1	1.1	DTL	1	8†	0	6	35n				700m	0	75	6	G0428t	TO84
73	WC296D	4	5.0M	MON	2.1	1.1	DTL	6	8†	0	6	35n			126m	700m	0	75	6		TO116
74	WC296G	4	5.0M	MON	2.1	1.1	DTL	6	8†	0	6	35n			126m	700m	0	75	6		TO84
75	CD2300-930	4	5.0M%	MON	2.6%	.40*†	DTL	5Δ	8	0.0	5.0	25n%	30n	80n	16m†	1.0 Δ	-55	125	2	G04354	FP44a
76	CD2300D930	4	5.0M%	MON	2.6%	.40*†	DTL	5Δ	8	0.0	5.0	25n%	30n	80n	16m†	1.0 Δ	-55	125	2	G04354	TO116
77	CD2302-946	4	5.0M%	MON	2.6%	.40*†	DTL	5Δ	8	0.0	5.0	25n%	30n	80n	16m†	1.0 Δ	-55	125	4	G04354a	FP44a
78	CD2302D946	4	5.0M%	MON	2.6%	.40*†	DTL	5Δ	8	0.0	5.0	25n%	30n	80n	16m†	1.0 Δ	-55	125	4	G04354a	TO116
79	CD2306-932	4	5.0M%	MON	2.6%	.40*†	DTL	5Δ	25	0.0	5.0	25n%	40n	80n	133m†	1.0 Δ	-55	125	2	G04355	FP44a
80	CD2306D932	4	5.0M%	MON	2.6%	.40*†	DTL	5Δ	25	0.0	5.0	25n%	40n	80n	133m†	1.0 Δ	-55	125	2	G04355	TO116
81	CD2307-944	4	5.0M%	MON	2.6%	.40*†	DTL	5Δ	27	0.0	5.0	25n%	35n	50n	100m†	1.0 Δ	-55	125	2	G04355a	FP44a
82	CD2307D944	4	5.0M%	MON	2.6%	.40*†	DTL	5Δ	27	0.0	5.0	25n%	35n	50n	100m†	1.0 Δ	-55	125	2	G04355a	TO116
83	CD2308-962	4	5.0M%	MON	2.6%	.40*†	DTL	5Δ	8	0.0	5.0	25n%	30n	80n	16m†	1.0 Δ	-55	125	3	G04354b	FP44a
84	CD2308D962	4	5.0M%	MON	2.6%	.40*†	DTL	5Δ	8	0.0	5.0	25n%	30n	80n	16m†	1.0 Δ	-55	125	3	G04354b	TO116
85	CD2300E830	4	5.0M%	MON	2.6%	.45*†	DTL	5Δ	8	0.0	5.0	25n%	30n	80n	20m†	1.0 Δ	0	75	2	G04354	TO116
86	CD2302E846	4	5.0M%	MON	2.6%	.45*†	DTL	5Δ	8	0.0	5.0	25n%	30n	80n	20m†	1.0 Δ	0	75	4	G04354a	TO116
87	CD2306E832	4	5.0M%	MON	2.6%	.45*†	DTL	5Δ	25	0.0	5.0	25n%	40n	80n	150m†	1.0 Δ	0	75	2	G04355	TO116
88	CD2307E844	4	5.0M%	MON	2.6%	.45*†	DTL	5Δ	27	0.0	5.0	25n%	35n	50n	113m†	1.0 Δ	0	75	2	G04355a	TO116
89	CD2308E862	4	5.0M%	MON	2.6%	.45*†	DTL	5Δ	8	0.0	5.0	25n%	30n	80n	20m†	1.0 Δ	0	75	3	G04354b	TO116
90	CD2301-961	4	5.0M%	MON	3.8%	.40*†	DTL	5Δ	7	0.0	5.0	25n%	30n	50n	27m†	1.0 Δ	-55	125	2	G04354	FP44a
91	CD2301D961	4	5.0M%	MON	3.8%	.40*†	DTL	5Δ	7	0.0	5.0	25n%	30n	50n	27m†	1.0 Δ	-55	125	2	G04354	TO116
92	CD2303-949	4	5.0M%	MON	3.8%	.40*†	DTL	5Δ	7	0.0	5.0	25n%	30n	50n	27m†	1.0 Δ	-55	125	4	G04354a	FP44a
93	CD2303D949	4	5.0M%	MON	3.8%	.40*†	DTL	5Δ	7	0.0	5.0	25n%	30n	50n	27m†	1.0 Δ	-55	125	4	G04354a	TO116
94	CD2309-963	4	5.0M%	MON	3.8%	.40*†	DTL	5Δ	7	0.0	5.0	25n%	30n	50n	27m†	1.0 Δ	-55	125	3	G04354b	FP44a
95	CD2309D963	4	5.0M%	MON	3.8%	.40*†	DTL	5Δ	7	0.0	5.0	25n%	30n	50n	27m†	1.0 Δ	-55	125	3	G04354b	TO116
96	521A	4	5.0M	MON	4.0%	.25*	TTL	2	9†	0.0	6.0	60n	80n†	40n†	2.0m	800m	-55	125	2	G04233	FP26a
97	CD2301E861	4	5.0M%	MON	4.3%	.45*†	DTL	5Δ	7	0.0	5.0	25n%	30n	50n	30m†	1.0 Δ	0	75	2	G04354	TO116
98	CD2303E849	4	5.0M%	MON	4.3%	.45*†	DTL	5Δ	7	0.0	5.0	25n%	30n	50n	30m†	1.0 Δ	0	75	4	G04354a	TO116
99	CD2309E863	4	5.0M%	MON	4.3%	.45*†	DTL	5Δ	7	0.0	5.0	25n%	30n	50n	30m†	1.0 Δ	0	75	3	G04354b	TO116
100	WCZ216D	4	5.0M%	MON	7.5	6.0	DTL	3	6†	0	12	60n			126m	4.0	0	75	3		TO116
101	WCZ236D	4	5.0M%	MON	7.5	6.0	DTL	3	6†	0	12	60n			234m	4.0	0	75	3		TO116
102	WCZ246D	4	5.0M%	MON	7.5	6.0	DTL	2	6†	0	12	60n			168m	4.0	0	75	4		TO116
103	WCZ261D	4	5.0M%	MON	7.5	6.0	DTL	5Δ	6†	0	12	60n			156m	4.0	0	75	2		TO116
104	WCZ266D	4	5.0M%	MON	7.5	6.0	DTL	2	6†	0	12	60n			312m	4.0	0	75	4		TO116
105	TG33	4	5.0M	PCB	0.0	3.0		2	30	0	4	30n	45n	40n	300m	1.0	-40	75	12		CB10a
106	IE12L	4	5.0M	PCB	0.0	5.5	RTL	3Δ	17	0	5.5				264m		0	55	12		CB7
107	IE12S	4	5.0M	PCB	0.0	5.5	RTL	3Δ	17	0	5.5				264m		-40	85	12		CB7
108	IN6L	4	5.0M	PCB	0.0	5.5	RTL	7	17	0	5.5				133m		0	55	6	G043e	CB7
109	IN6S	4	5.0M	PCB	0.0	5.5	RTL	7	17	0	5.5				133m		-40	85	6		CB7
110	IN12L	4	5.0M	PCB	0.0	5.5	RTL	3	17	0	5.5				264m		0	55	12	G043	CB7

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC			FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (s)	MAX.		MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP.		CKT PER MOD	DRAWINGS	
					LEVEL 4 '1' (V)	LEVEL 5 '0' (V)	TYPE	IN	OUT	NEG. (V)	POS. (V)		RISE TIME tr (s)	FALL TIME tf (s)			LOW °C	HI °C		LOGIC DWG. No	OUTLINE DWG. No Δ=MO
1	IN12S	4	5.0M	PCB	0.0	5.5	RTL	3	17	0	5.5				264m		-40	85	12		CB7
2	DN6	4	5.0M	PCB	0.0	-10	DTL	2	10	12	6	20n%	5.0n	100n	1.6	1.5	-20	55	10		CB10
3	694	4	5.0MΔ	PCB	2.0%	.45*	DTL	2	7	0.0	5.0	30n			320m	1.4	0	70	16	G04281	CB50
4	702A	4	5.0MΔ	PCB	2.0%	.45*	DTL	4Δ	7	0.0	5.0				120m	1.4	0	70	6	G04229c	CB50
5	702B	4	5.0MΔ	PCB	2.0%	.45*	DTL	4	25	0.0	5.0				300m	1.4	0	70	6	G04229b	CB50
6	702C	4	5.0MΔ	PCB	2.0%	.45*	DTL	4Δ	25	0.0	5.0				300m	1.4	0	70	6	G04229c	CB50
7	DR871	4	5.0M	PCB	2.0%	.70*	TTL	4	25	0	5	50n			480m	400m	0	75	8		CB⧄
8	DR872	4	5.0M	PCB	2.0%	.70*	TTL	4	25	0	5	50n			600m	400m	0	75	8		CB⧄
9	DR873	4	5.0M	PCB	2.0%	.80*	TTL	4	25	0	5	50n			600m	400m	0	75	8		CB⧄
10	ICD0205	4	5.0M	PCB	2.0%	1.1*	DTL	5Δ	1	0	5	80nΔ			230m	500m	0	75	4		CB51
11	ICD2205	4	5.0M	PCB	2.0%	1.1*	DTL	5Δ	1	0	5	80nΔ			230m	500m	0	75	4		CB51
12	ICD2270	4	5.0M	PCB	2.0%	1.1*	DTL	3	1	0	5	50nΔ			460m	500m	0	75	8		CB51
13	IMG2269	4	5.0M	PCB	2.0%	1.1*	DTL	5Δ	1	0.0	5.0	30nΔ			97m	500m	0	75	4		CB51
14	INN0202	4	5.0M	PCB	2.0%	1.1*	DTL	2	1	0	5	30nΔ			125m	500m	0	75	8	G043ac	CB51
15	INN0203	4	5.0M	PCB	2.0%	1.1*	DTL	5†	1	0.0	5.0	30nΔ			97m	500m	0	75	6		CB51
16	INN0236	4	5.0M	PCB	2.0%	1.1*	DTL	7Δ	1	0	5	30nΔ			70m	500m	0	75	4	G043ap	CB51
17	INN2202	4	5.0M	PCB	2.0%	1.1*	DTL	2	1	0	5	30nΔ			125m	500m	0	75	8	G043ac	CB51
18	INN2203	4	5.0M	PCB	2.0%	1.1*	DTL	5†	1	0.0	5.0	30nΔ			97m	500m	0	75	6		CB51
19	IPD0206	4	5.0M	PCB	2.0%	1.1*	DTL	5Δ	1	0	5	50nΔ			230m	500m	0	75	4		CB51
20	IPD0238	4	5.0M	PCB	2.0%	1.1*	DTL	3	1	0	5	50nΔ			460m	500m	0	75	8		CB51
21	IPD2238	4	5.0M	PCB	2.0%	1.1*	DTL	3	1	0	5	50nΔ			460m	500m	0	75	8		CB51
22	GG851	4	5.0M	PCB	2.2%	.70*	DTL	1	8	0	5	50n			350m	400m	0	75	18		CB⧄
23	GG852	4	5.0M	PCB	2.2%	.70*	DTL	2	8	0	5	50n			240m	400m	0	75	12		CB⧄
24	GG853	4	5.0M	PCB	2.2%	.70*	DTL	3	8	0	5	50n			180m	400m	0	75	9		CB⧄
25	GG854	4	5.0M	PCB	2.2%	.70*	DTL	8†	8	0.0	5.0	50n			270m	400m	0	75	6		CB⧄
26	GG859	4	5.0M	PCB	2.2%	.70*	DTL	4	8	0	5	50n			160m	400m	0	75	8		CB⧄
27	GG860	4	5.0M	PCB	2.2%	.70*	DTL	4	8	0	5	50n			160m	400m	0	75	8		CB⧄
28	TG807	4	5.0M	PCB	2.2%	.70*	DTL	2	8	0	5	50n			400m	400m	0	75	16		CB⧄
29	NN5201	4	5.0M	PCB	2.6%	.70*	DTL	2	8	0	5	30n				1.0 Δ	0	70	14		CB56
30	NN5202	4	5.0M	PCB	2.6%	.70*	DTL	3	8	0	5	30n				1.0 Δ	0	70	9		CB56
31	NN5203	4	5.0M	PCB	2.6%	.70*	DTL	1	8	0	5	30n				1.0 Δ	0	70	20		CB56
32	NN5204	4	5.0M	PCB	2.6%	.70*	DTL	4	8	0	5	30n				1.0 Δ	0	70	8		CB56
33	NN5206	4	5.0M	PCB	2.6%	.70*	DTL	5Δ	8	0	5	30n				1.0 Δ	0	70	6		CB56
34	NN5207	4	5.0M	PCB	2.6%	.70*	DTL	5Δ	8	0	5	30n				1.0 Δ	0	70	6		CB56
35	NN5208	4	5.0M	PCB	2.6%	.70*	DTL	5Δ	8	0	5	30n				1.0 Δ	0	70	6		CB56
36	NN5209	4	5.0M	PCB	2.6%	.70*	DTL	4†	8	0	5	30n				1.0 Δ	0	70	9		CB56
37	TG5417	4	5.0M	PCB	2.6%	.70*	DTL	5	8	0	5	30n				1.0 Δ	0	70	4		CB56
38	9010	4	5.0M	PCB	3.0	0.0	TTL	3	24	0	5	30n	5.0n	5.0n	680m	900m	0	70	8	G043a	CB54
39	9060	4	5.0M	PCB	3.0	0.0	TTL	2	6	0.0	5.0	17n	5.0n	5.0n	475m	900m	0	70	12	G043g	CB54
40	9061	4	5.0M	PCB	3.0	0.0	TTL	4	12	0.0	5.0	17n	5.0n	5.0n	225m	900m	0	70	8	G043r	CB54
41	9062	4	5.0M	PCB	3.0	0.0	TTL	8	6	0.0	5.0	17n	5.0n	5.0n	165m	900m	0	70	4	G043af	CB54
42	9063	4	5.0M	PCB	3.0	0.0	TTL	16	6.0	0.0	5.0	17n	5.0n	5.0n	50m	900m	0	70	2	G04339	CB54
43	DN31	4	5.0M	PCB	3.0	0.0	DTL	2	30	0	4	20n	30n	90n	235m	2.0	-40	70	12		CB10a
44	DN32	4	5.0M	PCB	3.0	0.0	DTL	3†	30	0	4	20n	30n	90n	215m	2.0	-40	70	10		CB10a
45	DN33	4	5.0M	PCB	3.0	0.0	DTL	5†	30	0	4	20n	30n	90n	150m	2.0	-40	70	7		CB10a
46	DN34	4	5.0M	PCB	3.0	0.0	DTL	10	30	0	4	20n	30n	90n	60m	2.0	-40	70	3		CB10a
47	DN35#	4	5.0M	PCB	3.0	0.0	DTL	3	30	0	4	20n	30n	90n	205m	2.0	-40	70	9		CB10a
48	DN36	4	5.0M	PCB	3.0	0.0	DTL	5	30	0	4	20n	30n	90n	120m	2.0	-40	70	6		CB10a
49	DI36	4	5.0M	PCB	-3.0	0.0	DTL	2	5	18	12	20n	25n†	50n†	2.0	1.5 *	-20	55	8	G04268a	CB13a
50	DL35	4	5.0M	PCB	-6.0	0.0	DTL	3†	5	18	12	20n	25n†	50n†	2.0	1.5 *	-20	55	8	G04268b	CB13a
51	DN4	4	5.0M	PCB	-10	0.0	DTL	3Δ	7	12	6	20n%	50n	100n	1.3	1.5	-20	55	8	G0439	CB10
52	GNA1-5	4	5.0M	PCB	-10	0.0	DTL	4†	10	12	6.0	40n	60n	70n	1.2	1.5	0	55	9	G04216	CB15
53	MM411	4	5.0M	3DM	0.0	-6.0	RCT	5	4	12	12	30n	40n	150n	170m	1.0	-25	60	1	G045b	M1
54	MM412	4	5.0M	3DM	0.0	-6.0	RCT	3	4	12	12	30n	80n	200n	206m		-25	60	2	G046	M2
55	GA36	4	8.0M	PCB	-12	0.0	DTL	3	6	12	6	15n			440m		-10	55	6	G04134a	CB33
56	DC340	4	10M	MOH	6.3	0.0	TTL	9	3	0.0	6.0	10n			300m		0	55	3		CB13
57	DI340	4	10M	MOH	6.3	0.0	TTL	2	10	0.0	6.0	20nΔ			600m		0	55	10	G04412	CB13
58	2NC1010	4	10M	MON	.75	.22	RTL	2	7	0.0	4.0	45n	45n	45n	4.0m	250m	-55	125	2	G04172	CN19
59	2NC1011	4	10M	MON	.75	.22	RTL	4	7	0.0	4.0	80n	80n	80n	4.0m	250m	-55	125	1	G04171	CN19
60	2NC2010	4	10M	MON	.80	.24	RTL	2	7	0.0	4.0	45n	45n	45n	4.0m	200m	0	100	2	G04172	CN19
61	2NC2011	4	10M	MON	.80	.24	RTL	4	7	0.0	4.0	80n	80n	80n	4.0m	200m	0	100	1	G04171	CN19
62	2NC4010	4	10M	MON	.80	.24	RTL	2	7	0.0	4.0	45n	45n	45n	4.0m	200m	0	75	2	G04172	CN19
63	2NC4011	4	10M	MON	.80	.24	RTL	4	7	0.0	4.0	80n	80n	80n	4.0m	200m	0	75	1	G04171	CN19
64	2NB1017	4	10M	MON	.81	.25		5	13		4.0	14n	14n	14n	27m	355m	-55	125	1	G043e	CN19
65	2NB2017	4	10M	MON	.84	.25		5	13		4.0	14n	14n	14n	27m	293m	0	100	1	G043e	CN19
66	2NB4017	4	10M	MON	.84	.25		5	13		4.0	14n	14n	14n	27m	293m	0	75	1	G043e	CN19
67	2NC3010	4	10M	MON	.85	.26		2	7		3.6	45n	45n	45n	4.0m	170m	15	65	2	G04172	CN19
68	2NC3011	4	10M	MON	.85	.26		4	7		3.6	80n	80n	80n	4.0m	170m	15	65	1	G04171	CN19
69	2NB3017	4	10M	MON	.91	.25		5	13		3.6	14n	14n	14n	27m	250m	15	65	1	G043e	CN19
70	MC205F	4	10M	MON	2.0	.60	DTL	2	20	6	8	50n			60m	500m	-55	125	1	G04226	TO91
71	MC205G	4	10M	MON	2.0	.60	DTL	2	20	6	8	50n			60m	500m	-55	125	1	G04226	CN8
72	MC255F	4	10M	MON	2.0	.60	DTL	2	20	6	8	50n			65m	500m	0	75	1	G04226	TO91
73	MC255G	4	10M	MON	2.0	.60	DTL	2	20	6	8	50n			65m	500m	0	75	1	G04226	CN8
74	B01A	4	10M	MON	2.3	.50	TTL	8	12	0.0	6.0	10n			16m	300m	-55	125	1	G04150	CN16a
75	B01B	4	10M	MON	2.3	.50	TTL	8	12	0.0	6.0	10n			16m	300m	-55	125	1	G04150	TO84
76	B02A	4	10M	MON	2.3	.50	TTL	4	12	0.0	6.0	10n			33m	300m	-55	125	2	G04151	CN16a
77	B02B	4	10M	MON	2.3	.50	TTL	4	12	0.0	6.0	10n			33m	300m	-55	125	2	G04151	TO84
78	MC281G	4	10M†	MON	6.0	.40	DTL	5Δ			6.0	18n			19m	550m	-55	125	2	G04143a	CN8
79	MC284G	4	10M†	MON	6.0	.40	DTL				6	18n			9.5m	550m	-55	125	2	G04144	CN8
80	DC10CNG2	4	10M	PCB	-6.0	0.0		3Δ	4	18	18	25n	50n	80n		1.2	-55	55	8		
81	DC10CNG4	4	10M	PCB	-6.0	0.0		5Δ	4	18	18	25n	50n	80n		1.2	-55	55	3		
82	G108	4	10M	PCB	-6.0	0.0	RCT	5	5	12	6	15n	20n	50n	890m		-55	71	3		CB16
83	GA108	4	10M	PCB	-6.0	0.0	RCT	5	5	12	6.0	15n	20n	50n	890m		-55	71	3		CB16
84	NG982	4	10M	PCB	-6.0	0.0	DTL	3Δ	5	12	12	25n	26n	30n	2.4	1.5	-45	65	8	G042	CB1
85	NG983	4	10M	PCB	-6.0	0.0	DTL	4Δ	5	12	12	25n	26n	30n	2.4	1.5	-45	65	8	G041a	CB1
86	NG984	4	10M	PCB	-6.0	0.0	DTL	4	5	12	12	25n	26n	30n	2.4	1.5	-45	65	8	G041	CB1
87	DC10MNG2	4	10M	PCM	-6.0	0.0		2	4	18	18	25n	50n	80n		1.2	-55	55	2		
88	DC10MNG4	4	10M	PCM	-6.0	0.0		4	4	18	18	25n	50n	80n		1.2	-55	55	1		
89	PC10	4	12M	MOH	5.0	0.0	DTL	7Δ	5	0	12	15n	12n	16n	170m		-55	125	1	G04162	FP8
90	PC14	4	12M	MOH	5.0	0.0	DTL	3	5	3	12	15n	12n	16n	170m		-55	125	2	G04165	FP8
91	NC11	4	15M	MOH	5.0	0.0	DTL	4	5	3	12	12n	12n	16n	60m		-55	125	1	G04156	CN43a
92	PC11	4	15M	MOH	5.0	0.0	DTL	6	5	3	12	12n	12n	16n	60m		-55	125	1	G04158	FP8
93	PC15	4	15M	MOH	5.0	0.0	DTL	3	5	3	12	12n	12n	16n	60m		-55	125	2	G04157	FP8
94	MC254F	4	15M	MON	4.0	.30	DTL	4Δ	20	6	8	40n			66m	500m	0	75	1	G04140	TO91
95	MC254G	4	15M	MON	4.0	.30	DTL	4Δ	20	6	8	40n			66m	500m	0	75	1	G04140	CN8
96	TNG5121	4	20M	MON	3.0	.30	TTL	4	40	0	5	18n	5.0n	5.0n	30m	1.0 Δ	-55	125	1	G0478e	TO116
97	TNG5121F	4	20M	MON	3.0	.30	TTL	4	40	0	5	18n	5.0n	5.0n	30m	1.0 Δ	-55	125	1	G0478e	FP21c
98	TNG5122	4	20M	MON	3.0	.30	TTL	4	40	0	5	18n	5.0n	5.0n	30m	1.0 Δ	0	75	1	G0478e	TO116
99	TNG5122F	4	20M	MON	3.0	.30	TTL	4	40	0	5	18n	5.0n	5.0n	30m	1.0 Δ	0	75	1	G0478e	FP21c
100	TNG5123	4	20M	MON	3.0	.30	TTL	4	24	0	5	18n	5.0n	5.0n	30m	1.0 Δ	-55	125	1	G0478e	TO116
101	TNG5123F	4	20M	MON	3.0	.30	TTL	4	24	0	5	18n	5.0n	5.0n	30m	1.0 Δ	-55	125	1	G0478e	FP21c
102	TNG5124	4	20M	MON	3.0	.30	TTL	4	24	0	5	18n	5.0n	5.0n	30m	1.0 Δ	0	75	1	G0478e	TO116
103	TNG5124F	4	20M	MON	3.0	.30	TTL	4	24	0	5	18n	5.0n	5.0n	30m	1.0 Δ	0	75	1	G0478e	FP21c
104	TNG5321F	4	20M	MON	3.0	.30	TTL	4	40	0	5	18n	5.0n	5.0n	30m	1.0 Δ	-55	125	1	G0478k	ZB39
105	TNG5322F	4	20M	MON	3.0	.30	TTL	4	40	0	5	18n	5.0n	5.0n	30m	1.0 Δ	0	75	1	G0478k	ZB39
106	TNG5323F	4	20M	MON	3.0	.30	TTL	4	24	0	5	18n	5.0n	5.0n	30m	1.0 Δ	-55	125	1	G0478k	ZB39
107	TNG5324F	4	20M	MON	3.0	.30	TTL	4	24	0	5	18n	5.0n	5.0n	30m	1.0 Δ	0	75	1	G0478k	ZB39
108	TNG5423F	4	20M	MON	3.0	.30	TTL	2	24	0	5	18n	5.0n	5.0n	30m	1.0 Δ	-55	125	2	G0478m	ZB39
109	TNG5424F	4	20M	MON	3.0	.30	TTL	2	24	0	5	18n	5.0n	5.0n	30m	1.0 Δ	0	75	2	G0478m	ZB39
110	TNG5413F	4	20M	MON	3.0	.40	TTL	4	40	0	5	15n	5.0n	5.0n	60m	1.0 Δ	-55	125	2	G0478s	ZB39

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	TNG5413P	4	20M	MON	3.0	.40	TTL	4	40	0.0	5.0	15n	5.0n	5.0n	60m	1.0 Δ	-55	125	2	G0478s	CN26
2	TNG5414F	4	20M	MON	3.0	.40	TTL	4	40	0	5	15n	5.0n	5.0n	60m	1.0 Δ	0	75	2	G0478s	ZB39
3	TNG5414P	4	20M	MON	3.0	.40	TTL	4	40	0.0	5.0	15n	5.0n	5.0n	60m	1.0 Δ	0	75	2	G0478s	CN26
4	RG40P	4	20M	MON	3.4	.20	TTL	4	15	0	5.0	10n			30m†	1.1	-55	125	2		M105k
5	RG41P	4	20M	MON	3.4	.20	TTL	4	7	0	5.0	10n			30m†	1.1	-55	125	2		M105k
6	RG42P	4	20M	MON	3.4	.20	TTL	4	12	0	5.0	10n			30m†	1.1	0	75	2		M105k
7	RG43P	4	20M	MON	3.4	.20	TTL	4	6	0	5.0	10n			30m†	1.1	0	75	2		M105k
8	RG60P	4	20M	MON	3.4	.20	TTL	8	15	0	5.0	12n			15m†	1.1	-55	125	1		M105k
9	RG61P	4	20M	MON	3.4	.20	TTL	8	7	0	5.0	12n			15m†	1.1	-55	125	1		M105k
10	RG62P	4	20M	MON	3.4	.20	TTL	8	15	0.0	5.0	12n			15m†	1.1	0	75	1		M105k
11	RG63P	4	20M	MON	3.4	.20	TTL	8	6	0.0	5.0	12n			15m†	1.1	0	75	1		M105k
12	RG120P	4	20M	MON	3.4	.20	TTL	8	15	0.0	5.0	18n			15m†	1.1	-55	125	1		M105k
13	RG121P	4	20M	MON	3.4	.20	TTL	8	7	0.0	5.0	18n			15m†	1.1	-55	125	1		M105k
14	RG122P	4	20M	MON	3.4	.20	TTL	8	12	0.0	5.0	18n			15m†	1.1	0	75	1		M105k
15	RG123P	4	20M	MON	3.4	.20	TTL	8	6	0.0	5.0	18n			15m†	1.1	0	75	1		M105k
16	RG130P	4	20M	MON	3.4	.20	TTL	4	30	0.0	5.0	15n			60m†	1.1	-55	125	2		M105k
17	RG131P	4	20M	MON	3.4	.20	TTL	4	15	0.0	5.0	15n			60m†	1.1	-55	125	2		M105k
18	RG140P	4	20M	MON	3.4	.20	TTL	2	15	0.0	5.0	10n			60m†	1.1	-55	125	4		M105k
19	RG141P	4	20M	MON	3.4	.20	TTL	2	7	0.0	5.0	10n			60m†	1.1	-55	125	4		M105k
20	RG142P	4	20M	MON	3.4	.20	TTL	2	12	0.0	5.0	10n			60m†	1.1	0	75	4		M105k
21	RG143P	4	20M	MON	3.4	.20	TTL	2	6	0.0	5.0	10n			60m†	1.1	0	75	4		M105k
22	RG190P	4	20M	MON	3.4	.20	TTL	3	15	0.0	5.0	10n			45m†	1.1	-55	125	3		M105k
23	RG191P	4	20M	MON	3.4	.20	TTL	3	7	0.0	5.0	10n			45m†	1.1	-55	125	3		M105k
24	RG192P	4	20M	MON	3.4	.20	TTL	3	12	0.0	5.0	10n			45m†	1.1	0	75	3		M105k
25	RG193P	4	20M	MON	3.4	.20	TTL	3	6	0.0	5.0	10n			45m†	1.1	0	75	3		M105k
26	TG401	4	20M	MON	3.5	.25	TTL	8	15†	0	6	12n	5.0n	8.0n	40m	1.0 Δ	-55	125	1	G04331	ZB159
27	TG402	4	20M	MON	3.5	.25	TTL	8	15†	0	6	12n	5.0n	8.0n	40m	1.0 Δ	0	75	1	G04331	ZB159
28	TG403	4	20M	MON	3.5	.25	TTL	8	7†	0	6	12n	5.0n	8.0n	40m	1.0 Δ	-55	125	1	G04331	ZB159
29	TG404	4	20M	MON	3.5	.25	TTL	8	7†	0	6	12n	5.0n	8.0n	40m	1.0 Δ	0	75	1	G04331	ZB159
30	TG405	4	20M	MON	3.5	.25	TTL	8	15†	0	6	12n	5.0n	8.0n	40m	1.0 Δ	-55	125	1	G04331a	ZB159
31	TG406	4	20M	MON	3.5	.25	TTL	8	15†	0	6	12n	5.0n	8.0n	40m	1.0 Δ	0	75	1	G04331a	ZB159
32	TG407	4	20M	MON	3.5	.25	TTL	8	7†	0	6	12n	5.0n	8.0n	40m	1.0 Δ	-55	125	1	G04331a	ZB159
33	TG408	4	20M	MON	3.5	.25	TTL	8	7†	0	6	12n	5.0n	8.0n	40m	1.0 Δ	0	75	1	G04331a	ZB159
34	TG411	4	20M	MON	3.5	.25	TTL	4	15†	0	6	12n	5.0n	8.0n	80m	1.0 Δ	-55	125	2	G0471a	ZB159
35	TG412	4	20M	MON	3.5	.25	TTL	4	15†	0	6	12n	5.0n	8.0n	80m	1.0 Δ	0	75	2	G0471a	ZB159
36	TG413	4	20M	MON	3.5	.25	TTL	4	7†	0	6	12n	5.0n	8.0n	80m	1.0 Δ	-55	125	2	G0471a	ZB159
37	TG414	4	20M	MON	3.5	.25	TTL	4	7†	0	6	12n	5.0n	8.0n	80m	1.0 Δ	0	75	2	G0471a	ZB159
38	TG415	4	20M	MON	3.5	.25	TTL	3	15†	0	6	12n	5.0n	8.0n	120m	1.0 Δ	-55	125	3	G0471b	ZB159
39	TG416	4	20M	MON	3.5	.25	TTL	3	15†	0	6	12n	5.0n	8.0n	120m	1.0 Δ	0	75	3	G0471b	ZB159
40	TG417	4	20M	MON	3.5	.25	TTL	3	7†	0	6	12n	5.0n	8.0n	120m	1.0 Δ	-55	125	3	G0471b	ZB159
41	TG418	4	20M	MON	3.5	.25	TTL	3	7†	0	6	12n	5.0n	8.0n	120m	1.0 Δ	0	75	3	G0471b	ZB159
42	TG421	4	20M	MON	3.5	.25	TTL	8	15†	0	6	12n	5.0n	8.0n	80m	1.0 Δ	-55	125	4	G0471c	ZB159
43	TG422	4	20M	MON	3.5	.25	TTL	8	15†	0	6	12n	5.0n	8.0n	80m	1.0 Δ	0	75	4	G0471c	ZB159
44	TG423	4	20M	MON	3.5	.25	TTL	8	7†	0	6	12n	5.0n	8.0n	80m	1.0 Δ	-55	125	4	G0471c	ZB159
45	TG424	4	20M	MON	3.5	.25	TTL	8	7†	0	6	12n	5.0n	8.0n	80m	1.0 Δ	0	75	4	G0471c	ZB159
46	SWG130	4	20M%	MON	3.5	.26	TTL	2	30	0.0	6.0	12n	5.0n	8.0n	30m	1.0	-55	125	1	G04213	CN3a
47	SWG131	4	20M%	MON	3.5	.26	TTL	2	15	0.0	6.0	12n	5.0n	8.0n	30m	1.0	-55	125	1	G04213	CN3a
48	SWG132	4	20M%	MON	3.5	.26	TTL	2	24	0.0	6.0	12n	5.0n	8.0n	30m	1.0	0	75	1	G04213	CN3a
49	SWG133	4	20M%	MON	3.5	.26	TTL	2	12	0.0	6.0	12n	5.0n	8.0n	30m	1.0	0	75	1	G04213	CN3a
50	SWG190	4	20M	MON	3.5	.26	TTL	9	15	0.0	6.0	14n	5.0n	8.0n	45m	1.0	-55	125	3		
51	SWG191	4	20M	MON	3.5	.26	TTL	9	7	0.0	6.0	14n	5.0n	8.0n	45m	1.0	-55	125	3		
52	SWG192	4	20M	MON	3.5	.26	TTL	9	12	0.0	6.0	14n	5.0n	8.0n	45m	1.0	0	75	3		
53	SWG193	4	20M	MON	3.5	.26	TTL	9	6	0.0	6.0	14n	5.0n	8.0n	45m	1.0	0	75	3		
54	DR972	4	20M	PCB	2.0%	.80*	TTL	4	30	0	5	13n			350m†	400m	0	70	8		CB▨
55	GG952	4	20M	PCB	2.0%	.80*	TTL	2	10	0	5	13n			180m†	400m	0	70	12		CB▨
56	GG953	4	20M	PCB	2.0%	.80*	TTL	3	10	0	5	13n			135m†	400m	0	70	9		CB▨
57	GG956	4	20M	PCB	2.0%	.80*	TTL	2	10	0	5	13n			180m†	400m	0	70	12		CB▨
58	GG958	4	20M	PCB	2.0%	.80*	TTL	8	10	0.0	5.0	13n			60m%	400m	0	70	4		CB▨
59	GG959	4	20M	PCB	2.0%	.80*	TTL	4	10	0	5	13n			120m†	400m	0	70	8		CB▨
60	TG907	4	20M	PCB	2.0%	.80*	TTL	20	10	0	5	13n			300m†	400m	0	70	16		CB▨
61	8214,A-C	4	20M	TFH	3.0	.50	DDL	6Δ	4	3	6	10n	20n	10n	110m		-55	100	1	G0412	M7
62	SE880J	4	30M	MON	2.0%	.80*	TTL	2	10	0.0	6.0	13n			60m	1.0 Δ	-55	125	4	G04273c	TO88
63	NE808A	4	30M	MON	3.1	.20†	TTL	8	10	0	5.5	20nΔ			15m	2.0	0	70	1	G04273	TO116
64	NE816A	4	30M	MON	3.1	.20†	TTL	4	10	0	5.5	20nΔ			30m	2.0	0	70	2	G04273a	TO116
65	NE855A	4	30M	MON	3.1	.20†	TTL	4	30	0	5.5	20nΔ			86m	2.0	0	70	2	G0415k	TO116
66	NE870A	4	30M	MON	3.1	.20†	TTL	3	10	0	5.5	20nΔ			45m	2.0	0	70	3	G04273b	TO116
67	NE880A	4	30M	MON	3.1	.20†	TTL	2	10	0	5.5	20nΔ			60m	2.0	0	70	4	G04273c	TO116
68	SE870J	4	30M	MON	3.1	.20†	TTL	3	10	0.0	6.0	13n			45m	1.0 Δ	-55	125	3	G04273b	TO88
69	SWG220	4	35M	MON	3.5	.26	TTL	8	12	0.0	6.0	6.0n	3.0n	5.0n	22mΔ	1.0	-55	125	4		
70	SWG221	4	35M	MON	3.5	.26	TTL	8	6	0.0	6.0	6.0n	3.0n	5.0n	22mΔ	1.0	-55	125	4		
71	SWG222	4	35M	MON	3.5	.26	TTL	8	10	0.0	6.0	6.0n	3.0n	5.0n	22mΔ	1.0	0	75	4		
72	SWG223	4	35M	MON	3.5	.26	TTL	8	5	0.0	6.0	6.0n	3.0n	5.0n	22mΔ	1.0	0	75	4		
73	SWG240	4	35M	MON	3.5	.26	TTL	8	12	0.0	6.0	6.0n	3.0n	5.0n	22mΔ	1.0	-55	125	2		
74	SWG241	4	35M	MON	3.5	.26	TTL	8	6	0.0	6.0	6.0n	3.0n	5.0n	22mΔ	1.0	-55	125	2		
75	SWG242	4	35M	MON	3.5	.26	TTL	8	10	0.0	6.0	6.0n	3.0n	5.0n	22mΔ	1.0	0	75	2		
76	SWG243	4	35M	MON	3.5	.26	TTL	8	5	0.0	6.0	6.0n	3.0n	5.0n	22mΔ	1.0	0	75	2		
77	SWG260	4	35M	MON	3.5	.26	TTL	8	12	0.0	6.0	8.0n	3.0n	5.0n	22m	1.0	-55	125	1		
78	SWG261	4	35M	MON	3.5	.26	TTL	8	6	0.0	6.0	8.0n	3.0n	5.0n	22m	1.0	-55	125	1		
79	SWG262	4	35M	MON	3.5	.26	TTL	8	10	0.0	6.0	8.0n	3.0n	5.0n	22m	1.0	0	75	1		
80	SWG263	4	35M	MON	3.5	.26	TTL	8	5	0.0	6.0	8.0n	3.0n	5.0n	22m	1.0	0	75	1		
81	DC50CSNG2	4	50M	PCB	3.0	0.0		3Δ	4	12	12	9.0n	7.0n	10n		1.0	-10	100	8		
82	DC50CSNG4	4	50M	PCB	3.0	0.0		5Δ	4	12	12	9.0n	7.0n	10n		1.0	-10	100	3		
83	DC50MSNG2	4	50M	PCM	3.0	0.0		2	6	12	12	9.0n	7.0n	10n		1.0	-10	100	2		
84	DC50MSNG4	4	50M	PCM	3.0	0.0		4	4	12	12	9.0n	7.0n	10n		1.0	-10	100	1		
85	66B4	4Δ					DTL		5			24n			45m				1	G0497	CN35
86	66B4P	4Δ					DTL		5			24n			45m				1	G0497	FP12
87	67B4	4Δ					DTL		5			24n			22m				1	G0498	CN35
88	67B4P	4Δ					DTL		5			24n			22m				1	G0498	FP12
89	IA00221	4,2	5.0M	PCB	2.0%	1.1*	DTL	15	1	0.0	5.0	30nΔ			270m	500m	0	75	2		CB51
90	6G222D	4,3		MON	3.0%	.40*	TTL	2	9	0	6	6.0n	2.5n	40n	88m	1.0	0	75	4	G04240b	M126b
91	6G222G	4,3		MON	3.0%	.40*	TTL	2	9	0	6	6.0n	2.5n	40n	88m	1.0	0	75	4	G04240b	FP57
92	6G222K	4,3		MON	3.0%	.40*	TTL	2	9	0	6	6.0n	2.5n	40n	88m	1.0	0	75	4	G04240b	M105h
93	6G223D	4,3		MON	3.0%	.40*	TTL	2	5	0	6	6.0n	2.5n	40n	88m	1.0	0	75	4	G04240b	M126b
94	6G223G	4,3		MON	3.0%	.40*	TTL	2	5	0	6	6.0n	2.5n	40n	88m	1.0	0	75	4	G04240b	FP57
95	6G223K	4,3		MON	3.0%	.40*	TTL	2	5	0	6	6.0n	2.5n	40n	88m	1.0	0	75	4	G04240b	M105h
96	6G242D	4,3		MON	3.0%	.40*	TTL	4	9	0	6	6.0n	2.5n	4.0n	44m	1.0	0	75	2	G04240	M126b
97	6G242G	4,3		MON	3.0%	.40*	TTL	4	9	0	6	6.0n	2.5n	4.0n	44m	1.0	0	75	2	G04240	FP57
98	6G242K	4,3		MON	3.0%	.40*	TTL	4	9	0	6	6.0n	2.5n	4.0n	44m	1.0	0	75	2	G04240	M105h
99	6G243D	4,3		MON	3.0%	.40*	TTL	4	5	0	6	6.0n	2.5n	4.0n	44m	1.0	0	75	2	G04240	M126b
100	6G243G	4,3		MON	3.0%	.40*	TTL	4	5	0	6	6.0n	2.5n	4.0n	44m	1.0	0	75	2	G04240	FP57
101	6G243K	4,3		MON	3.0%	.40*	TTL	4	5	0	6	6.0n	2.5n	4.0n	44m	1.0	0	75	2	G04240	M105h
102	6G262D	4,3		MON	3.0%	.40*	TTL	8	9	0	6	6.0n	3.0n	4.0n	22m	1.0	0	75	1	G04240a	M126b
103	6G262G	4,3		MON	3.0%	.40*	TTL	8	9	0	6	6.0n	3.0n	4.0n	22m	1.0	0	75	1	G04240a	FP57
104	6G262K	4,3		MON	3.0%	.40*	TTL	8	9	0	6	6.0n	3.0n	4.0n	22m	1.0	0	75	1	G04240a	M105h
105	6G263D	4,3		MON	3.0%	.40*	TTL	8	5	0	6	6.0n	3.0n	4.0n	22m	1.0	0	75	1	G04240a	M126b
106	6G263G	4,3		MON	3.0%	.40*	TTL	8	5	0	6	6.0n	3.0n	4.0n	22m	1.0	0	75	1	G04240a	FP57
107	6G263K	4,3		MON	3.0%	.40*	TTL	8	5	0	6	6.0n	3.0n	4.0n	22m	1.0	0	75	1	G04240a	M105h
108	6G220D	4,3		MON	3.1%	.40*	TTL	2	11	0	6	6.0n	2.5n	4.0n	22m†	1.0	-55	125	4	G04240b	M126b
109	6G220G	4,3		MON	3.1%	.40*	TTL	2	11	0	6	6.0n	2.5n	4.0n	22m†	1.0	-55	125	4	G04240b	FP57
110	6G220K	4,3		MON	3.1%	.40*	TTL	2	11	0	6	6.0n	2.5n	4.0n	22m†	1.0	-55	125	4	G04240b	M105h

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL		LOGIC TYPE	FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (s)	MAX.		MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP.		CKT PER MOD	DRAWINGS	
					4 '1' (V)	5 '0' (V)		IN	OUT	NEG. (V)	POS. (V)		RISE TIME tr (s)	FALL TIME tf (s)			LOW °C	HI °C		LOGIC DWG. No	OUTLINE DWG. No Δ=MO
1	6G221D	4,3		MON	3.1%	.40*	TTL	2	6	0	6	6.0n	2.5n	40n	88m	1.0	-55	125	4	G04240b	M126b
2	6G221G	4,3		MON	3.1%	.40*	TTL	2	6	0	6	6.0n	2.5n	4.0n	22m†	1.0	-55	125	4	G04240b	FP57
3	6G221K	4,3		MON	3.1%	.40*	TTL	2	6	0	6	6.0n	2.5n	40n	88m	1.0	-55	125	4	G04240b	M105h
4	6G240D	4,3		MON	3.1%	.40*	TTL	4	11	0	6	6.0n	2.5n	40n	44m	1.0	-55	125	2	G04240	M126b
5	6G240G	4,3		MON	3.1%	.40*	TTL	4	11	0	6	6.0n	2.5n	40n	44m	1.0	-55	125	2	G04240	FP57
6	6G240K	4,3		MON	3.1%	.40*	TTL	4	11	0	6	6.0n	2.5n	40n	44m	1.0	-55	125	2	G04240	M105h
7	6G241D	4,3		MON	3.1%	.40*	TTL	4	6	0	6	6.0n	2.5n	40n	44m	1.0	-55	125	2	G04240	M126b
8	6G241G	4,3		MON	3.1%	.40*	TTL	4	6	0	6	6.0n	2.5n	40n	44m	1.0	-55	125	2	G04240	FP57
9	6G241K	4,3		MON	3.1%	.40*	TTL	4	6	0	6	6.0n	2.5n	40n	44m	1.0	-55	125	2	G04240	M105h
10	6G260D	4,3		MON	3.1%	.40*	TTL	8	11	0	6	6.0n	3.0n	4.0n	22m	1.0	-55	125	1	G04240a	M126b
11	6G260G	4,3		MON	3.1%	.40*	TTL	8	11	0	6	6.0n	3.0n	4.0n	22m	1.0	-55	125	1	G04240a	FP57
12	6G260K	4,3		MON	3.1%	.40*	TTL	8	11	0	6	6.0n	3.0n	4.0n	22m	1.0	-55	125	1	G04240a	M105h
13	6G261D	4,3		MON	3.1%	.40*	TTL	8	6	0	6	6.0n	3.0n	4.0n	22m	1.0	-55	125	1	G04240a	M126b
14	6G261G	4,3		MON	3.1%	.40*	TTL	8	6	0	6	6.0n	3.0n	4.0n	22m	1.0	-55	125	1	G04240a	FP57
15	6G261K	4,3		MON	3.1%	.40*	TTL	8	6	0	6	6.0n	3.0n	4.0n	22m	1.0	-55	125	1	G04240a	M105h
16	508BH	4,3S		MON	1.8%	1.0*	TTL	8	6	0	6.8	200n			2.0m		-55	125	1	G04318	TO86
17	538BH	4,3S		MON	1.8%	1.0*	TTL	8	7	0	6.8	85n			4.8m		-55	125	1	G04318	TO86
18	578BH	4,3S		MON	1.8%	1.0*	TTL	8	7	0.0	6.8	35n			11m		-55	125	1	G04318	TO86
19	508CJ	4,3S	1.0MΔ	MON	1.8%	1.0*	TTL	8	6	0.0	6.8	200n			2.0m		0	70	1	G04318	M205
20	538CJ	4,3S	1.0MΔ	MON	1.8%	1.0*	TTL	8	7	0.0	6.8	85n			4.8m		0	70	1	G04318	M205
21	578CJ	4,3S	1.0MΔ	MON	1.8%	1.0*	TTL	8	7	0.0	6.8	35n			11m		0	70	1	G04318	M205
22	DC20	4,6	200k	PCB	-6.0	0.0	DTL	2	7	18	12	600n	500n†	800n†	100m	1.5 *	-20	55	8	G04268c	CB13a
23	DF20	4,6	200k	PCB	-6.0	0.0	DTL	3Δ	7	18	12	600n	500n†	800n†	300m	1.5 *	-20	55	7	G04269	CB13a
24	DI20	4,6	200k	PCB	-6.0	0.0	DTL	3Δ	7	18	12	600n	500n†	800n†	600m	1.5 *	-20	55	8	G04268a	CB13a
25	DJ20	4,6	200k	PCB	-6.0	0.0	DTL	3Δ	7	18	12	600n	500n†	800n†	500m	1.5 *	-20	55	6	G04269a	CB13a
26	DN20	4,6	200k	PCB	-6.0	0.0	DTL	3Δ	7	18	12	600n	500n†	800n†	300m	1.5 *	-20	55	8	G04268	CB13a
27	GA14	4,6	200k	PCB	-12	0.0	DTL	4Δ	6	12	6	300n			120m		-10	55	4	G04133	CB33
28	DC130	4,6	1.0M	PCB	6.0	0.0†	DTL	3	7	12	18				200m	1.5 *	-55	100	8	G04266c	CB13a
29	DF130	4,6	1.0M	PCB	6.0	0.0	DTL	3Δ	7	12	18	80n			700m	1.5 *	-55	100	4	G04267	CB13a
30	DN130	4,6	1.0M	PCB	6.0	0.0†	DTL	3Δ	7	12	18	80n			700m	1.5 *	-55	100	4	G04266	CB13a
31	DC30	4,6	1.0M	PCB	-6.0	0.0	DTL	2	7	18	12	100n	100n†	150n†	200m	1.5 *	-20	55	8	G04268c	CB13a
32	DF30	4,6	1.0M	PCB	-6.0	0.0	DTL	3Δ	7	18	12	100n	100n†	150n†	700m	1.5 *	-20	55	7	G04269	CB13a
33	DI30	4,6	1.0M	PCB	-6.0	0.0	DTL	3Δ	7	18	12	100n	100n†	150n†	1.4	1.5 *	-20	55	8	G04268a	CB13a
34	DJ30	4,6	1.0M	PCB	-6.0	0.0	DTL	3Δ	7	18	12	100n	100n†	150n†	1.0	1.5 *	-20	55	6	G04269a	CB13a
35	DN30	4,6	1.0M	PCB	-6.0	0.0	DTL	3Δ	7	18	12	100n	100n†	150n†	700m	1.5 *	-20	55	8	G04268	CB13a
36	GA24	4,6	2.0M	PCB	-12	0.0	DTL	4Δ	6	12	6	40n			60m		-10	55	4	G04133	CB33
37	DC35	4,6	5.0M	PCB	-6.0	0.0	DTL	2	5	18	12	20n	25n†	50n†	300m	1.5 *	-20	55	8	G04268c	CB13a
38	DF35	4,6	5.0M	PCB	-6.0	0.0	DTL	3Δ	5	18	12	20n	25n†	50n†	1.0	1.5 *	-20	55	7	G04269	CB13a
39	DI35	4,6	5.0M	PCB	-6.0	0.0	DTL	3Δ	5	18	12	20n	25n†	50n†	2.0	1.5 *	-20	55	8	G04268a	CB13a
40	DJ35	4,6	5.0M	PCB	-6.0	0.0	DTL	3Δ	5	18	12	20n	25n†	50n†	1.4	1.5 *	-20	55	6	G04269a	CB13a
41	GA34	4,6	8.0M	PCB	-12	0.0	DTL	4Δ	6	12	6	15n			29n		-10	55	4	G04133a	CB33
42	PD9936-59	4m		MON	2.6%	.45*†	DTL	1	8	0.0	8.0	80nΔ			120m		0	75	6	G04310e	TO116
43	PL9936-59	4m		MON	2.6%	.45*†	DTL	1	8	0.0	8.0	80nΔ			120m		0	75	6	G04310e	TO86
44	PM9936-59	4m		MON	2.6%	.45*†	DTL	1	8	0.0	8.0	80nΔ			120m		0	75	6	G04310e	TO116
45	MM111B	4A	50k	3DM	0.0	-6.0	RTL	5	4	12	12	400n	500n	4.0u	150m	1.0	0	55	1	G045	M1
46	MM211B	4A	250k	3DM	0.0	-6.0	RTL	6	4	12	12	250n	250n	2.5u	180m	1.0	-54	71	1	G045	M1
47	MM311B	4A	500k	3DM	0.0	6.0	RCT	5	4	12	12	250n	150n	1.3u	200m	1.0	-25	125	1	G045a	M1
48	MM411B	4A	5.0M	3DM	0.0	-6.0	RCT	5	4	12	12	30n	40n	150n	170m	1.0	-25	60	1	G045b	
49	SC1174	4B	1.0MΔ	MOS				4		-10	0.0				60m		0	70	2	G04112	FP18
50	IC12	4C	300k	PCB	8.0	0.0	DTL	10	24	25	25	150n	100n	50n	3.1	3.5	-55	100	14	G04124	CB34
51	IC14	4C	300k	PCB	8.0	0.0	DTL	15	7	25	25	110n	70n	40n	1.5	3.5	-55	100	10	G04125	CB34
52	IX12	4C	300k	PCB	8.0	0.0	DTL	10	18	25	25	200n	150n	50	4.1	4.2	-55	100	14	G04124	CB34
53	IH14	4C	1.0M	PCB	8.0	0.0	DTL	10	12	25	25	60n	35n	25n	2.3	3.5	-55	.100	10	G04125	CB34
54	IL12	4C	8.0M	PCB	8.0	0.0	DTL	10	20	25	25	25n†	15n	10n	4.5	4.2	-55	100	14	G04124	CB34
55	IL14	4C	8.0M	PCB	8.0	0.0	DTL	10	16	25	25	25n	15n	10n	2.4	3.5	-55	100	10	G04125	CB34
56	IT31	4C	10M	PCB	4.0	0.0	DTL	2†	14	0	8	30n	5.0n	5.0n	1.6	1.5	5	71	14	G04228a	CB37a
57	SN516A	4CE		MON	.30	2.5	RCT	2	25%	0.0	8.0	60n	70n	930n	8.0mΔ	200m	-55	125	3	G04193c	TO89
58	SN5162	4E		MON	.30	2.5	RCT	2	25%	0.0	8.0	70n	70n	650n	8.0mΔ	200m	-55	125	3	G04193e	TO84
59	RM210Q	4E	2.0M	MON	3.5	.60	DTL	3	22	0.0	6.0	75n	52n	105n	60m	550m	-55	125	2	G0437	FP46
60	501A	4E	4.0MΔ%	MON	4.0%	.25*	TTL	3	50	0.0	6.0	60n	80n†	40n†	1.0m	800m	-55	125	1	G04235	FP26a
61	IT11	4E	10M%	PCB	4.0	0.0		4†	14	0	8	18n			1.1	1.8	5	71	12	G04276	CB37a
62	IT15	4E	10M%	PCB	4.0	0.0		3†	14	0.0	8.0	18n			1.0	1.8	5	71	8		CB37a
63	IT16	4E	10M%	PCB	4.0	0.0		3†	14	0.0	8.0	18n			1.2	1.8	5	71	8		CB37a
64	IT18	4E	10M	PCB	4.0	0.0	DTL	5†	14	0	8				1.0		5	71	10	G043aq	CB37a
65	MEM901	4EF		MON	-12	0.0		6		24	0.0	250n			20m				1	G04214	CN49
66	MEM901F	4EF		MON	-12	0.0		6		24	0.0	250n			20m				1	G04214	FP⧄
67	SN513A	4EM		MON	.30	2.5	RCT	6	25	0.0	8.0	95n	80n	1.3u	7.0m	200m	-55	125	1	G04193a	TO89
68	SN17909	4F		MON	.81*	.20*	RTL	2	30	0.0	5.5						-55	125	1		
69	SN7440P	4F		MON	1.9%	1.1*	TTL	4	10	0.0	5.5	13n			10m	400m	0	75	2		M100
70	SN74932	4F		MON	1.9%	1.1*	TTL	4	10	0	5.5	13n			10m	400m	0	75	2	G043q	ZB6
71	SN54932	4F		MON	2.5%	.45*Δ	TTL	4	10	0	5.5	13n			10m	400m	-55	125	2	G043q	ZB6
72	INN0237	4F	5.0M	PCB	2.0%	1.1*	DTL	5†	1	0.0	5.0	30nΔ			72m	500m	0	75	4	G04287	CB51
73	INN2237	4F	5.0M	PCB	2.0%	1.1*	DTL	5†	1	0.0	5.0	30nΔ			72m	500m	0	75	4	G04287	CB51
74	GR16	4G	200k	PCB	-12	0.0	DTL	4	6	12	6	600n			670m		-10	55	6	G04145	CB33
75	IC15	4G	300k	PCB	8.0	0.0	DTL	3†	7	25	25	80n			1.5	3.5	-55	100	12	G04126	CB34
76	462	4G	300k	PCB	-6.8	0.0	DTL	2	1	12	12		200n	500n	1.1		0	55	8		CB24
77	463	4G	300k	PCB	-6.8	0.0	DTL	3	1	12	12		200n	500n	900m		0	55	6		CB24
78	4126	4G	600k	PCB	0.0	-3.0	RCT	2		15	10		60n	1.0u	909m	1.0	-20	55	6	G0499	CB30
79	4128	4G	600k	PCB	0.0	-3.0	RCT	5		15	10		120n	1.8u	528m	750m	-20	55	2	G04129	CB30
80	MS62	4G	1.0M	PCB	6.2	0.0	DTL	2	1	18	18		100n	100n	2.8	2.5 *	-30	100	12		CB25
81	MS64	4G	1.0M	PCB	6.2	0.0	DTL	4	1	18	18		100n	100n	1.1	2.5 *	-30	100	10		CB25
82	GR26	4G	2.0M	PCB	-12	0.0	DTL	4	6	12	6	80n			570m		-10	55	6	G04145	CB33
83	IL15	4G	8.0M	PCB	8.0	0.0	DTL	3†	16	25	25	20n	12n	8.0n	3.4	3.5	-55	100	12	G04126	CB34
84	GR34	4G	8.0M	PCB	-12	0.0	DTL	4	6	12	6	30n			810m		-10	55	4	G04145a	CB33
85	466	4GS	300k	PCB	-6.8	0.0	DTL	3	1	12	12		200n	500n	1.2		0	55	5		CB24
86	MIC310-1A	4M					DTL	5	10	0.0	4.0	15n			10m	200m	-55	125	1		TO89
87	MIC310-1B	4M					DTL	5	10	0.0	4.0	15n			10m	200m	-55	125	1		TO86
88	MIC310-1C	4M					DTL	5	10	0.0	4.0	15n			10m	200m	-55	125	1		CN17
89	MIC310-2A	4M					DTL	5	10	0.0	4.0	15n			10m	200m	0	100	1		TO89
90	MIC310-2B	4M					DTL	5	10	0.0	4.0	15n			10m	200m	0	100	1		TO86
91	MIC310-2C	4M					DTL	5	10	0.0	4.0	15n			10m	200m	0	100	1		CN17
92	MIC310-3A	4M					DTL	5	10	0.0	4.0	15n			10m	200m	15	55	1		TO89
93	MIC310-3B	4M					DTL	5	10	0.0	4.0	15n			10m	200m	15	55	1		TO86
94	MIC310-3C	4M					DTL	5	10	0.0	4.0	15n			10m	200m	15	55	1		CN17
95	MIC311-1A	4M					CTL	5	10	0.0	4.0	15n			20m	200m	-55	125	2		TO89
96	MIC311-1B	4M					CTL	5	10	0.0	4.0	15n			20m	200m	-55	125	2		TO86
97	MIC311-1C	4M					CTL	5	10	0.0	4.0	15n			20m	200m	-55	125	2		CN17
98	MIC311-2A	4M					CTL	5	10	0.0	4.0	15n			20m	200m	0	100	2		TO89
99	MIC311-2B	4M					CTL	5	10	0.0	4.0	15n			20m	200m	0	100	2		TO86
100	MIC311-2C	4M					CTL	5	10	0.0	4.0	15n			20m	200m	0	100	2		CN17
101	MIC311-3A	4M					CTL	5	10	0.0	4.0	15n			20m	200m	15	55	2		TO89
102	MIC311-3B	4M					CTL	5	10	0.0	4.0	15n			20m	200m	15	55	2		TO86
103	MIC311-3C	4M					CTL	5	10	0.0	4.0	15n			20m	200m	15	55	2		CN17
104#	H103	4M		MON				3	25			105n			300m†		0	75	3		M105e
105	ST659A	4M		MON			DTL	5Δ	12	0.0	6.0	25n			80m	1.0 Δ	0	70	2	G04227c	M105
106	NE8471A	4M		MON		.35*†	TTL	3		0	6	60n		75n	45m	1.4	0	75	3	G04317f	TO116
107	NE8471J	4M		MON		.35*†	TTL	3		0	6	60n		75n	45m	1.4	0	75	3	G04317k	TO88
108	NE8481A	4M		MON		.35*†	TTL	2		0	6	60n		75n	60m	1.4	0	75	4	G04317d	TO116
109	NE8481J	4M		MON		.35*†	TTL	2		0	6	60n		75n	60m	1.4	0	75	4	G04317m	TO88
110	SE8471A	4M		MON		.35*†	TTL	3		0	6	60n		75n	45m	1.4	-55	125	3	G04317f	TO116

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPER-ATING FREQ. (Hz)	3 PRO-CESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPA-GATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	SE8471J	4M		MON		.35*†	TTL	3		0	6	60n		75n	45m	1.4	-55	125	3	G04317k	TO88
2	SE8481A	4M		MON		.35*†	TTL	2		0	6	60n		75n	60m	1.4	-55	125	4	G04317d	TO116
3	SE8481J	4M		MON		.35*†	TTL	2		0	6	60n		75n	60m	1.4	-55	125	4	G04317m	TO88
4	PD9962-51	4M		MON		.40*†	DTL	3	8	0.0	8.0	80nΔ			48m	1.0	-55	125	3	G0427q	TO116
5	PL9962-51	4M		MON		.40*†	DTL	3	8	0.0	8.0	80nΔ			48m	1.0	-55	125	3	G0427q	TO86
6	PD9962-59	4M		MON		.45*†	DTL	3	8	0.0	8.0	80nΔ			60m	1.0	0	75	3	G0427q	TO116
7	PL9962-59	4M		MON		.45*†	DTL	3	8	0.0	8.0	80nΔ			60m	1.0	0	75	3	G0427q	TO86
8	PM9962-59	4M		MON		.45*†	DTL	3	8	0.0	8.0	80nΔ			60m	1.0	0	75	3	G0427q	TO116
9	46B4	4M		MON		.6†*	DTL	4Δ	20	8	8	70nΔ			35m		-55	125	1	G04140	TO100
10	46B4P	4M		MON		.6†*	DTL	4Δ	20	8	8	70nΔ			35m		-55	125	1	G04140	TO91
11	72B4	4M		MON		.6†*	DTL	3†	5	8	8	50n			14m	800m	-55	125	2	G04256	TO100
12	72B4P	4M		MON		.6†*	DTL	3†	5	8	8	50n			14m	800m	-55	125	2	G04256	TO91
13	SE101	4M		MON	0.0	.30	DTL	5Δ		0.0	5.5	50n			7.3m		-55	125			
14	SE102	4M		MON	0.0	.30	DTL	4Δ		0.0	5.5	50n			7.3m		-55	125	1		
15	SN512A	4M		MON	.30	2.5	RCT	6	5	0.0	8.0	80n	80n	1.4u	2.4m	200m	-55	125	1	G04193	TO89
16	SN514A	4M		MON	.30	2.5	RCT	3	5	0.0	8.0	60n	70n	1.0u	7.0mΔ	200m	-55	125	2	G04193b	TO89
17	1134D2	4M		MON	.83	.75	RTL	2	5	0.0	5.0	40n				350m	-55	125	2		CN40
18	1134D3	4M		MON	.83	.75	RTL	3	5	0.0	5.0	40n				350m	-55	125	2		CN40
19	1134G	4M		MON	.83	.75	RTL	4		0.0	5.0	70n				350m	-55	125	1		CN40
20	2134D2	4M		MON	.83	.75	RTL	2	5	0.0	5.0	40n				350m	-55	125	2		FP20
21	2134D3	4M		MON	.83	.75	RTL	3	5	0.0	5.0	40n				350m	-55	125	2		FP20
22	2134G	4M		MON	.83	.75	RTL	4		0.0	5.0	70n				350m	-55	125	1		FP20
23	MC1062S	4M		MON	-.75%	-1.6*	ECT	2	90	8	0	.90n%			220m†	250m	0	75	4	G04379	FP78
24	RM201Q	4M		MON	1.0	1.8	DTL	3	22	0.0	10	30n			38m	550m	-55	125	2	G0428	FP46
25	RM211Q	4M		MON	1.0	1.8	DTL	4	22	0.0	10	30n			38m	550m	-55	125	2	G0428a	FP46
26	RM221Q	4M		MON	1.0	1.8	DTL	4Δ	22	0.0	10	30n			38m	550m	-55	125	2	G0428b	FP46
27	RM231Q	4M		MON	1.0	1.8	DTL	5Δ	22	0.0	10	30n			38m	550m	-55	125	2	G0428c	FP46
28	RM241Q	4M		MON	1.0*	2.0%	DTL	4	16	0.0	10	19n			30m	550m	-55	125	2		FP46
29	RM261Q	4M		MON	1.0*	2.0%	DTL	5Δ	16	0.0	10	19n			30m	550m	-55	125	2	G0464d	FP46
30	RM261T	4M		MON	1.0*	2.0%	DTL	5Δ	16	0.0	10	19n			30m	550m	-55	125	2	G0464d	CN18
31	RM6172G	4M		MON	1.0*	2.0%	DTL	4Δ	16	0.0	10				40m	550m	-55	125	2		TO84
32	RM6178G	4M		MON	1.0*	2.0%	DTL	3Δ	16	0.0	10				33m	550m	-55	125	3	G0428r	TO84
33	RM6179G	4M		MON	1.0*	2.0%	DTL	3Δ	16	0.0	10				60m	550m	-55	125	3		TO84
34	RM6184G	4M		MON	1.0*	2.0%	DTL	3†	16	0.0	10				33m	550m	-55	125	3	G0428s	TO84
35	RM6185G	4M		MON	1.0*	2.0%	DTL	3†	16	0.0	10				60m	550m	-55	125	3		TO84
36#	T102D2-16	4M		MON	1.7%	.90*	TTL	2	10	0.0	5.0	12nΔ			44m†	400m	-55	125	4	G03250a	M200
37#	T104D2-16	4M		MON	1.7%	.90*	TTL	4	10	0.0	5.0	12nΔ			22m†	400m	-55	125	2	G03250	M200
38#	T107D2-16	4M		MON	1.7%	.90*	TTL	8	10	0.0	5.0	12nΔ			11m†	400m	-55	125	1	G03250c	M200
39	TNG3341F	4M		MON	1.7%	1.1*	TTL	3	15	0	7				66m†	1.0 Δ	-55	125	3	G043y	FP21c
40	TNG3341P	4M		MON	1.7%	1.1*	TTL	3	15	0	7				66m†	1.0 Δ	-55	125	3	G043y	TO116
41	TNG3342F	4M		MON	1.7%	1.1*	TTL	3	15	0	7				66m†	1.0 Δ	0	75	3	G043y	FP21c
42	TNG3342P	4M		MON	1.7%	1.1*	TTL	3	15	0	7				66m†	1.0 Δ	0	75	3	G043y	TO116
43	TNG3343F	4M		MON	1.7%	1.1*	TTL	3	7	0	7				66m†	1.0 Δ	-55	125	3	G043y	FP21c
44	TNG3343P	4M		MON	1.7%	1.1*	TTL	3	7	0	7				66m†	1.0 Δ	-55	125	3	G043y	TO116
45	TNG3344F	4M		MON	1.7%	1.1*	TTL	3	7	0	7				66m†	1.0 Δ	0	75	3	G043y	FP21c
46	TNG3344P	4M		MON	1.7%	1.1*	TTL	3	7	0	7				66m†	1.0 Δ	0	75	3	G043y	TO116
47#	T102B1-16	4M		MON	1.8%	.85*	TTL	2	10	0.0	5.0	15nΔ			44m†	400m	0	75	4	G03250a	M200
48#	T102D1-16	4M		MON	1.8%	.85*	TTL	2	10	0.0	5.0	15nΔ			44m†	400m	0	75	4	G03250a	M200
49#	T104B1-16	4M		MON	1.8%	.85*	TTL	4	10	0.0	5.0	15nΔ			22m†	400m	0	75	2	G03250	M200
50#	T104D1-16	4M		MON	1.8%	.85*	TTL	4	10	0.0	5.0	15nΔ			22m†	400m	0	75	2	G03250	M200
51#	T105B1-16	4M		MON	1.8%	.85*	TTL	6Δ	10	0.0	5.0	18nΔ			22m†	400m	0	75	2	G03248	M200
52#	T105D1-16	4M		MON	1.8%	.85*	TTL	6Δ	10	0.0	5.0	18nΔ			22m†	400m	0	75	2	G03248	M200
53#	T107B1-16	4M		MON	1.8%	.85*	TTL	8	10	0.0	5.0	15nΔ			11m†	400m	0	75	1	G03250c	M200
54#	T107D1-16	4M		MON	1.8%	.85*	TTL	8	10	0.0	5.0	15nΔ			11m†	400m	0	75	1	G03250c	M200
55#	T112D1-16	4M		MON	1.8%	.85*	TTL	2	40	0.0	5.0	6.0n			44m†		0	75	4		M105e
56	DTuL930#1	4M		MON	1.9	1.0	DTL	5Δ	8	0.0	5.0	30n			8.5m	1.0	0	75	2	G04154	FP28
57	DTuL930#2	4M		MON	1.9	1.0	DTL	5Δ	8	0.0	5.0	30n			8.5m	1.0	0	75	2	G04154	M54
58	DTuL932#1	4M		MON	1.9	1.0	DTL	5Δ	25	0.0	5.0	40n			8.5m	1.0	0	75	2		FP28
59	DTuL932#2	4M		MON	1.9	1.0	DTL	5Δ	25	0.0	5.0	40n			8.5m	1.0	0	75	2		M54
60	DTuL944#1	4M		MON	1.9	1.0	DTL	5Δ	25	0.0	5.0	50n			8.5m	1.0	0	75	2	G04154	FP28
61	DTuL944#2	4M		MON	1.9	1.0	DTL	5Δ	25	0.0	5.0	50n			8.5m	1.0	0	75	2	G04154	M54
62	DTuL946#1	4M		MON	1.9	1.0	DTL	2	8	0.0	5.0	80n			8.5m	1.0	0	75	4		FP28
63	DTuL946#2	4M		MON	1.9	1.0	DTL	2	8	0.0	5.0	80n			8.5m	1.0	0	75	4		M54
64	DTuL949#1	4M		MON	1.9	1.0	DTL	2	7	0.0	5.0	50n			8.5m	1.0	0	75	4		FP28
65	DTuL949#2	4M		MON	1.9	1.0	DTL	2	7	0.0	5.0	50n			8.5m	1.0	0	75	4		M54
66	DTuL961#1	4M		MON	1.9	1.0	DTL	5Δ	7	0.0	5.0	50n			8.5m	1.0	0	75	2		FP28
67	DTuL961#2	4M		MON	1.9	1.0	DTL	5Δ	7	0.0	5.0	50n			8.5m	1.0	0	75	2		M54
68	DTuL962#1	4M		MON	1.9	1.0	DTL	3	8	0.0	5.0	80n			8.5m	1.0	0	75	3		FP28
69	DTuL962#2	4M		MON	1.9	1.0	DTL	3	8	0.0	5.0	80n			8.5m	1.0	0	75	3		M54
70	DTuL963#1	4M		MON	1.9	1.0	DTL	3	7	0.0	5.0	50n			8.5m	1.0	0	75	3		FP28
71	DTuL963#2	4M		MON	1.9	1.0	DTL	3	7	0.0	5.0	50n			8.5m	1.0	0	75	3		M54
72	69B4	4M		MON	2.0%	.6*†	DTL	2	20	5	8	55n			30m		-55	125	1	G04254	TO100
73	69B4P	4M		MON	2.0%	.6†*	DTL	2	20	5	8	55n			30m		-55	125	1	G04254	TO91
74#	FCH232	4M		MON	2.0%	.80*	DTL	5Δ	10	0	5.0	93n	18n	8.0n	11m	1.2	-55	125	2	G0470b	TO116
75	SN5400	4M		MON	2.0%	.80*	TTL	2	10	0	7	22n%			40m†	1.0	-55	125	4	G0414	TO84
76	SN5410	4M		MON	2.0%	.80*	TTL	3	10	0	7	22n%			30m	1.0	-55	125	3	G0414a	TO84
77	SN5420	4M		MON	2.0%	.80*	TTL	4	10	0	7	22n%			20m	1.0	-55	125	2	G0414b	TO84
78	SN5430	4M		MON	2.0%	.80*	TTL	8	10	0	7	22n%			10m	1.0	-55	125	1	G0414c	TO84
79	SN5440	4M		MON	2.0%	.80*	TTL	4	30	0	7	22n%			40m	1.0	-55	125	2	G0415	TO84
80	RC201D	4M		MON	2.0%	1.0*	DTL	3	11	0	6.0	40n			22m†	550m	0	75	2		M105k
81	RC201G	4M		MON	2.0%	1.0*	DTL	3	11	0	6.0	40n			22m†	550m	0	75	2	G0428	TO84
82	RC201P	4M		MON	2.0%	1.0*	DTL	3	11	0	6.0	40n			22m†	550m	0	75	2		M105m
83	RC201T	4M		MON	2.0%	1.0*	DTL	3	11	0	6.0	40n			22m†	550m	0	75	2	G0428	TO101
84	RC204D	4M		MON	2.0%	1.0*	DTL	5Δ	11	0	6.0	57n			11m†	550m	0	75	1		M105k
85	RC204G	4M		MON	2.0%	1.0*	DTL	5Δ	11	0	6.0	57n			11m†	550m	0	75	1	G0428e	TO84
86	RC204P	4M		MON	2.0%	1.0*	DTL	5Δ	11	0	6.0	57n			11m†	550m	0	75	1		M105m
87	RC204T	4M		MON	2.0%	1.0*	DTL	5Δ	11	0	6.0	57n			11m†	550m	0	75	1	G0428e	TO101
88	RC206D	4M		MON	2.0%	1.0*	DTL	3†	11	0	6.0	48n			33m†	550m	0	75	3		M105k
89	RC206G	4M		MON	2.0%	1.0*	DTL	3†	11	0	6.0	48n			33m†	550m	0	75	3	G0428k	TO84
90	RC206P	4M		MON	2.0%	1.0*	DTL	3†	11	0	6.0	48n			33m†	550m	0	75	3		M105m
91	RC211D	4M		MON	2.0%	1.0*	DTL	4	11	0	6.0	40n			22m†	550m	0	75	2		M105k
92	RC211G	4M		MON	2.0%	1.0*	DTL	4	11	0	6.0	40n			22m†	550m	0	75	2	G0428a	TO84
93	RC211P	4M		MON	2.0%	1.0*	DTL	4	11	0	6.0	40n			22m†	550m	0	75	2		M105m
94	RC211T	4M		MON	2.0%	1.0*	DTL	4	11	0	6.0	40n			22m†	550m	0	75	2	G0428a	TO101
95	RC214D	4M		MON	2.0%	1.0*	DTL	7Δ	11	0	6.0	57n			11m†	550m	0	75	1		M105k
96	RC214G	4M		MON	2.0%	1.0*	DTL	7Δ	11	0	6.0	57n			11m†	550m	0	75	1	G0428m	TO84
97	RC214P	4M		MON	2.0%	1.0*	DTL	7Δ	11	0	6.0	57n			11m†	550m	0	75	1		M105m
98	RC214T	4M		MON	2.0%	1.0*	DTL	7Δ	11	0	6.0	57n			11m†	550m	0	75	1	G0428f	TO101
99	RC216D	4M		MON	2.0%	1.0*	DTL	3	11	0	6.0	48n			33m†	550m	0	75	3		M105k
100	RC216G	4M		MON	2.0%	1.0*	DTL	3	11	0	6.0	48n			33m†	550m	0	75	3	G0428j	TO84
101	RC216P	4M		MON	2.0%	1.0*	DTL	3	11	0	6.0	48n			33m†	550m	0	75	3		M105m
102	RC221D	4M		MON	2.0%	1.0*	DTL	4Δ	11	0	6.0	40n			22m†	550m	0	75	2		M105k
103	RC221G	4M		MON	2.0%	1.0*	DTL	4Δ	11	0	6.0	40n			22m†	550m	0	75	2	G0428b	TO84
104	RC221P	4M		MON	2.0%	1.0*	DTL	4Δ	11	0	6.0	40n			22m†	550m	0	75	2		M105m
105	RC221T	4M		MON	2.0%	1.0*	DTL	4Δ	11	0	6.0	40n			22m†	550m	0	75	2	G0428b	TO101
106	RC224D	4M		MON	2.0%	1.0*	DTL		11	0	6.0	57n			11m†	550m	0	75	1		M105k
107	RC224G	4M		MON	2.0%	1.0*	DTL		11	0	6.0	57n			11m†	550m	0	75	1	G0428h	TO84
108	RC224P	4M		MON	2.0%	1.0*	DTL		11	0	6.0	57n			11m†	550m	0	75	1		M105m
109	RC224T	4M		MON	2.0%	1.0*	DTL		11	0	6.0	57n			11m†	550m	0	75	1	G0428g	TO101
110	RC226D	4M		MON	2.0%	1.0*	DTL	3Δ	11	0	6.0	48n			60m†	550m	0	75	3		M105k

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPER-ATING FREQ. (Hz)	3 PRO-CESS	LOGIC LEVEL		LOGIC	FAN		POWER SUPPLY SPAN		PROPA-GATION DELAY (s)	MAX.		MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP.		CKT PER MOD	DRAWINGS	
					4 '1' (V)	5 '0' (V)	TYPE	IN	OUT	NEG. (V)	POS. (V)		RISE TIME tr (s)	FALL TIME tf (s)			LOW °C	HI °C		LOGIC DWG. No	OUTLINE DWG. No Δ=MO
1	RC226G	4M		MON	2.0%	1.0*	DTL	3Δ	11	0	6.0	48n			60m†	550m	0	75	3	G0464b	TO84
2	RC226P	4M		MON	2.0%	1.0*	DTL	3Δ	11	0	6.0	48n			60m†	550m	0	75	3		M105m
3	RC231D	4M		MON	2.0%	1.0*	DTL	5Δ	11	0	6.0	40n			22m†	550m	0	75	2		M105k
4	RC231G	4M		MON	2.0%	1.0*	DTL	5Δ	11	0	6.0	40n			22m†	550m	0	75	2	G0428c	TO84
5	RC231P	4M		MON	2.0%	1.0*	DTL	5Δ	11	0	6.0	40n			22m†	550m	0	75	2		M105m
6	RC231T	4M		MON	2.0%	1.0*	DTL	5Δ	11	0	6.0	40n			22m†	550m	0	75	2		TO101
7	RC234D	4M		MON	2.0%	1.0*	DTL	10Δ	11	0	6.0	57n			20m†	550m	0	75	1		M105k
8	RC234G	4M		MON	2.0%	1.0*	DTL	10Δ	11	0	6.0	57n			20m†	550m	0	75	1	G0469c	TO84
9	RC234P	4M		MON	2.0%	1.0*	DTL	10Δ	11	0	6.0	57n			20m†	550m	0	75	1		M105m
10	RC234T	4M		MON	2.0%	1.0*	DTL	10Δ	11	0	6.0	57n			20m†	550m	0	75	1	G0469f	TO101
11	RC236D	4M		MON	2.0%	1.0*	DTL	3	11	0	6.0	48n			60m†	550m	0	75	3		M105k
12	RC236G	4M		MON	2.0%	1.0*	DTL	3	11	0	6.0	48n			60m†	550m	0	75	3	G0464g	TO84
13	RC236P	4M		MON	2.0%	1.0*	DTL	3	11	0	6.0	48n			60m†	440m	0	75	3		M105m
14	RC241D	4M		MON	2.0%	1.0*	DTL	4	11	0	6.0	40n			40m†	550m	0	75	2		M105k
15	RC241G	4M		MON	2.0%	1.0*	DTL	4	11	0	6.0	40n			40m†	550m	0	75	2	G0464c	TO84
16	RC241P	4M		MON	2.0%	1.0*	DTL	4	11	0	6.0	40n			40m†	550m	0	75	2		M105m
17	RC241T	4M		MON	2.0%	1.0*	DTL	4	11	0	6.0	40n			40m†	550m	0	75	2	G0464h	TO101
18	RC246D	4M		MON	2.0%	1.0*	DTL	2	11	0	6.0	48n			44m†	550m	0	75	4		M105k
19	RC246G	4M		MON	2.0%	1.0*	DTL	2	11	0	6.0	48n			44m†	550m	0	75	4	G0467a	TO84
20	RC246P	4M		MON	2.0%	1.0*	DTL	2	11	0	6.0	48n			44m†	550m	0	75	4		M105m
21	RC261D	4M		MON	2.0%	1.0*	DTL	5Δ	11	0	6.0	40n			40m†	550m	0	75	2		M105k
22	RC261G	4M		MON	2.0%	1.0*	DTL	5Δ	11	0	6.0	40n			40m†	550m	0	75	2	G0464d	TO84
23	RC261P	4M		MON	2.0%	1.0*	DTL	5Δ	11	0	6.0	40n			40m†	550m	0	75	2		M105m
24	RC266D	4M		MON	2.0%	1.0*	DTL	2	11	0	6.0	48n			44m†	550m	0	75	4		M105k
25	RC266G	4M		MON	2.0%	1.0*	DTL	2	11	0	6.0	48n			44m†	550m	0	75	4	G0467a	TO84
26	RC266P	4M		MON	2.0%	1.0*	DTL	2	11	0	6.0	48n			44m†	550m	0	75	4		M105m
27	RC930D	4M		MON	2.0%	1.0*	DTL	5Δ	8	0	5.0	30n			17m†	500m	0	75	2	G0427a	M105m
28	RC930J	4M		MON	2.0%	1.0*	DTL	5Δ	8	0	5.0	30n			17m†	500m	0	75	2	G0427a	FP28
29	RC930P	4M		MON	2.0%	1.0*	DTL	5Δ	8	0	5.0	30n			17m†	500m	0	75	2	G0427a	M105k
30	RC930T	4M		MON	2.0%	1.0*	DTL	3†	8	0	5.0	30n			17m†	500m	0	75	2	G0427p	TO100
31	RC932D	4M		MON	2.0%	1.0*	DTL	5Δ	25	0	5.0	35n			56m†	500m	0	75	2		M105m
32	RC932J	4M		MON	2.0%	1.0*	DTL	5Δ	25	0	5.0	35n			56m†	500m	0	75	2		FP28
33	RC932P	4M		MON	2.0%	1.0*	DTL	5Δ	25	0	5.0	35n			56m†	500m	0	75	2		M105k
34	RC932T	4M		MON	2.0%	1.0*	DTL	3†	25	0	5.0	35n			56m†	500m	0	75	2		TO101
35	RC944D	4M		MON	2.0%	1.0*	DTL	5Δ	25	0	5.0	30n			44m†	500m	0	75	2		M105m
36	RC944J	4M		MON	2.0%	1.0*	DTL	5Δ	25	0	5.0	30n			44m†	500m	0	75	2		FP28
37	RC944P	4M		MON	2.0%	1.0*	DTL	5Δ	25	0	5.0	30n			44m†	500m	0	75	2		M105k
38	RC944T	4M		MON	2.0%	1.0*	DTL	3†	25	0	5.0	30n			44m†	500m	0	75	2		TO101
39	RC946D	4M		MON	2.0%	1.0*	DTL	2	8	0	5	30n			36m†	500m	0	75	4		M105m
40	RC946J	4M		MON	2.0%	1.0*	DTL	2	8	0	5	30n			36m†	500m	0	75	4		FP28
41	RC946P	4M		MON	2.0%	1.0*	DTL	2	8	0	5	30n			36m†	500m	0	75	4		M105k
42	RC946T	4M		MON	2.0%	1.0*	DTL	2	8	0	5	30n			36m†	500m	0	75	4		TO101
43	RC949D	4M		MON	2.0%	1.0*	DTL	2	7	0	5	25n			36m†	500m	0	75	4		M105m
44	RC949J	4M		MON	2.0%	1.0*	DTL	2	7	0	5	25n			36m†	500m	0	75	4		FP28
45	RC949P	4M		MON	2.0%	1.0*	DTL	2	7	0	5	25n			36m†	500m	0	75	4		M105k
46	RC949T	4M		MON	2.0%	1.0*	DTL	2	8	0	5	25n			36m†	500m	0	75	4		TO101
47	RC961D	4M		MON	2.0%	1.0*	DTL	5Δ	7	0	5.0	25n			17m†	500m	0	75	2	G0427a	M105m
48	RC961J	4M		MON	2.0%	1.0*	DTL	5Δ	7	0	5.0	25n			17m†	500m	0	75	2	G0427a	FP28
49	RC961P	4M		MON	2.0%	1.0*	DTL	5Δ	7	0	5.0	25n			17m†	500m	0	75	2	G0427a	M105k
50	RC961T	4M		MON	2.0%	1.0*	DTL	3†	7	0	5.0	25n			17m†	500m	0	75	2	G0427p	TO100
51	RC962D	4M		MON	2.0%	1.0*	DTL	3	8	0	5	30n			24m†	500m	0	75	3		M105m
52	RC962J	4M		MON	2.0%	1.0*	DTL	3	8	0	5	30n			24m†	500m	0	75	3		FP28
53	RC962P	4M		MON	2.0%	1.0*	DTL	3	8	0	5	30n			24m†	500m	0	75	3		M105k
54	RC962T	4M		MON	2.0%	1.0*	DTL	3	8	0	5	30n			24m†	500m	0	75	3		TO101
55	RC963D	4M		MON	2.0%	1.0*	DTL	3	7	0	5.0	25n			21m†	500m	0	75	3		M105m
56	RC963J	4M		MON	2.0%	1.0*	DTL	3	7	0	5.0	25n			21m†	500m	0	75	3		FP28
57	RC963P	4M		MON	2.0%	1.0*	DTL	3	7	0	5.0	25n			21m†	500m	0	75	3		M105k
58	RC963T	4M		MON	2.0%	1.0*	DTL	3	7	0	5.0	25n			21m†	500m	0	75	3		TO101
59	RM201P	4M		MON	2.0%	1.0*	DTL	3	11	0	6.0	40n			22m†	550m	-55	125	2		M105m
60	RM204P	4M		MON	2.0%	1.0*	DTL	5Δ	11	0	6.0	57n			11m†	550m	-55	125	1		M105m
61	RM206P	4M		MON	2.0%	1.0*	DTL	3†	11	0	6.0	48n			33m†	550m	-55	125	3		M105m
62	RM211P	4M		MON	2.0%	1.0*	DTL	4	11	0	6.0	40n			22m†	550m	-55	125	2		M105m
63	RM214P	4M		MON	2.0%	1.0*	DTL	7Δ	11	0	6.0	57n			11m†	550m	-55	125	1		M105m
64	RM216P	4M		MON	2.0%	1.0*	DTL	3	11	0	6.0	48n			33m†	550m	-55	125	3		M105m
65	RM221P	4M		MON	2.0%	1.0*	DTL	4Δ	11	0	6.0	40n			22m†	550m	-55	125	2		M105m
66	RM224P	4M		MON	2.0%	1.0*	DTL		11	0	6.0	57n			11m†	550m	-55	125	1		M105m
67	RM226P	4M		MON	2.0%	1.0*	DTL	3Δ	11	0	6.0	48n			60m†	550m	-55	125	3		M105m
68	RM231P	4M		MON	2.0%	1.0*	DTL	5Δ	11	0	6.0	40n			22m†	550m	-55	125	2		M105m
69	RM234P	4M		MON	2.0%	1.0*	DTL	10Δ	11	0	6.0	57n			20m†	550m	-55	125	1		M105m
70	RM236P	4M		MON	2.0%	1.0*	DTL	3	11	0	6.0	48n			60m†	550m	-55	125	3		M105m
71	RM241P	4M		MON	2.0%	1.0*	DTL	4	11	0	6.0	40n			40m†	550m	-55	125	2		M105m
72	RM246P	4M		MON	2.0%	1.0*	DTL	2	11	0	6.0	48n			44m†	550m	-55	125	4		M105m
73	RM261P	4M		MON	2.0%	1.0*	DTL	5Δ	11	0	6.0	40n			40m†	550m	-55	125	2		M105m
74	RM266P	4M		MON	2.0%	1.0*	DTL	2	11	0	6.0	48n			44m†	550m	-55	125	4		M105m
75	RM930D	4M		MON	2.0%	1.0*	DTL	5Δ	8	0	5.0	30n			17m†	500m	-55	125	2	G0427a	M105m
76	RM930P	4M		MON	2.0%	1.0*	DTL	5Δ	8	0	5.0	30n			17m†	500m	-55	125	2	G0427a	M105k
77	RM932D	4M		MON	2.0%	1.0*	DTL	5Δ	25	0	5.0	35n			56m†	500m	-55	125	2		M105m
78	RM932P	4M		MON	2.0%	1.0*	DTL	5Δ	25	0	5.0	35n			56m†	500m	-55	125	2		M105k
79	RM944P	4M		MON	2.0%	1.0*	DTL	5Δ	25	0	5.0	30n			44m†	500m	-55	125	2		M105k
80	RM946P	4M		MON	2.0%	1.0*	DTL	2	8	0	5	30n			36m†	500m	-55	125	4		M105k
81	RM949P	4M		MON	2.0%	1.0*	DTL	2	7	0	5	25n			36m†	500m	-55	125	4		M105k
82	RM961P	4M		MON	2.0%	1.0*	DTL	5Δ	7	0	5.0	25n			17m†	500m	-55	125	2	G0427a	M105k
83	RM962P	4M		MON	2.0%	1.0*	DTL	3	8	0	5	30n			24m†	500m	-55	125	3		M105k
84	RM963P	4M		MON	2.0%	1.0*	DTL	3	7	0	5.0	25n			21m†	500m	-55	125	3		M105k
85	SI830	4M		MON	2.0	1.1	DTL	5Δ	2	0	5	80nΔ					0	75	2	G0492f	TO84
86	SI846F	4M		MON	2.0	1.1	DTL	2	4	0.0	5.5	80nΔ					0	75	4	G04153a	TO84
87	SI862	4M		MON	2.0	1.1	DTL	3	3	0	5.5	80nΔ					0	75	3	G0492fc	TO84
88	SI930	4M		MON	2.0	1.1	DTL	5Δ	2	0	5	80nΔ					-55	125	2	G0492f	TO84
89	SI946F	4M		MON	2.0	1.1	DTL	2	4	0.0	5.5	80nΔ					-55	125	4	G04153a	TO84
90	SI962	4M		MON	2.0	1.1	DTL	3	3	0	5.5	80nΔ					-55	125	3	G0492fc	TO84
91#	FFH121A2	4M		MON	2.4%	.40*	DTL	5Δ	25	8.0	8	50n			28m	1.0	0	75	1	G04226	TO74
92#	FFH121C1	4M		MON	2.4%	.40*	DTL	5Δ	25	8.0	8	50n			28m	1.0	0	75	1	G04226	TO91
93	TNG3311F	4M		MON	2.4%	.45*†	TTL	3	15	0	7	12n			45m†	450mΔ	-55	125	3	G0478c	FP21c
94	TNG3311P	4M		MON	2.4%	.45*†	TTL	3	15	0	7	12n			45m†	450mΔ	-55	125	3	G0478c	TO116
95	TNG3312F	4M		MON	2.4%	.45*†	TTL	3	15	0	7	12n			45m†	450mΔ	0	75	3	G0478c	FP21c
96	TNG3312P	4M		MON	2.4%	.45*†	TTL	3	15	0	7	12n			45m†	450mΔ	0	75	3	G0478c	TO116
97	TNG3313F	4M		MON	2.4%	.45*†	TTL	3	7	0	7	12n			45m†	450mΔ	-55	125	3	G0478c	FP21c
98	TNG3313P	4M		MON	2.4%	.45*†	TTL	3	7	0	7	12n			45m†	450mΔ	-55	125	3	G0478c	TO116
99	TNG3314F	4M		MON	2.4%	.45*†	TTL	3	7	0	7	12n			45m†	450mΔ	0	75	3	G0478c	FP21c
100	TNG3314P	4M		MON	2.4%	.45*†	TTL	3	7	0	7	12n			45m†	450mΔ	0	75	3	G0478c	TO116
101	TNG3481L	4M		MON	2.4%	.45*†	TTL	4	15	0	7	12n			60m†	450mΔ	-55	125	4	G0478r	FP54
102	TNG3482L	4M		MON	2.4%	.45*†	TTL	4	15	0	7	12n			60m†	450mΔ	0	75	4	G0478r	FP54
103	TNG3483L	4M		MON	2.4%	.45*†	TTL	4	7	0	7	12n			60m†	450mΔ	-55	125	4	G0478r	FP54
104	TNG3484L	4M		MON	2.4%	.45*†	TTL	4	7	0	7	12n			60m†	450mΔ	0	75	4	G0478r	FP54
105	SI846	4M		MON	2.5%	.40*	DTL	2	8	0	8	80n					0	75	4		TO84
106	SI946	4M		MON	2.5%	.40*	DTL	2	8	0	8	80n					-55	125	4		TO84
107	WC949D	4M		MON	2.6%		DTL	2	7	0	8	29n			66m†		0	75	4	G04229a	M126b
108	DTL393051	4M		MON	2.6%	.40†*	DTL	5Δ	8	0.0	8.0	80nΔ			17m	500m	-55	125	2	G04217	FP28
109	DTL393251	4M		MON	2.6%	.40†*	DTL	5Δ	25	0.0	8.0	80nΔ			100m	500m	-55	125	2	G04207a	FP28
110	DTL394451	4M		MON	2.6%	.40†*	DTL	5Δ	25	0.0	8.0	50nΔ			74m	500m	-55	125	2	G04154	FP28

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	DTL394651	4M		MON	2.6%	.40†*	DTL	2	8	0.0	8.0	80nΔ			34m	500m	-55	125	4	G04217a	FP28
2	DTL396251	4M		MON	2.6%	.40†*	DTL	3	8	0.0	8.0	80nΔ			26m	500m	-55	125	3	G04217b	FP28
3	DTL693051	4M		MON	2.6%	.40†*	DTL	5Δ	8	0.0	8.0	80nΔ			17m	500m	-55	125	2	G04217	M54
4	DTL693251	4M		MON	2.6%	.40†*	DTL	5Δ	25	0.0	8.0	80nΔ			100m	500m	-55	125	2	G04207e	M54
5	DTL694451	4M		MON	2.6%	.40†*	DTL	5Δ	25	0.0	8.0	80nΔ			74m	500m	-55	125	2	G04154	M54
6	DTL694651	4M		MON	2.6%	.40†*	DTL	2	8	0.0	8.0	80nΔ			34m	500m	-55	125	4	G04217a	M54
7	DTL696251	4M		MON	2.6%	.40†*	DTL	3	8	0.0	8.0	80nΔ			26m	500m	-55	125	3	G04217b	M54
8	PD9930-51	4M		MON	2.6%	.40*†	DTL	5Δ	8	0.0	8.0	80nΔ			32m	1.0	-55	125	2	G0427a	TO116
9	PD9932-51	4M		MON	2.6%	.40*†	DTL	5Δ		0.0	8.0	80nΔ			130m	1.0	-55	125	2	G04154c	TO116
10	PD9936-51	4M		MON	2.6%	.40*†	DTL	1	8	0.0	8.0	80nΔ			100m		-55	125	6	G04310e	TO116
11	PD9944-51	4M		MON	2.6%	.40*†	DTL	5Δ		0.0	8.0	50nΔ			100m	1.0	-55	125	2	G04154b	TO116
12	PD9946-51	4M		MON	2.6%	.40*†	DTL	2	8	0.0	8.0	80nΔ			65m	1.0	-55	125	4	G0427	TO116
13	PD9946E51	4M		MON	2.6%	.40*†	DTL	2Δ	8	0.0	8.0	80nΔ			65m	1.0	-55	125	4	G0427j	TO116
14	PL9930-51	4M		MON	2.6%	.40*†	DTL	5Δ	8	0.0	8.0	80nΔ			32m	1.0	-55	125	2	G0427a	TO86
15	PL9932-51	4M		MON	2.6%	.40*†	DTL	5Δ		0.0	8.0	80nΔ			130m	1.0	-55	125	2	G04154c	TO86
16	PL9936-51	4M		MON	2.6%	.40*†	DTL	1	8	0.0	8.0	80nΔ			100m		-55	125	6	G04310e	TO86
17	PL9944-51	4M		MON	2.6%	.40*†	DTL	5Δ		0.0	8.0	50nΔ			100m	1.0	-55	125	2	G04154b	TO86
18	PL9946-51	4M		MON	2.6%	.40*†	DTL	2	8	0.0	8.0	80nΔ			65m	1.0	-55	125	4	G0427	TO86
19	PL9946E51	4M		MON	2.6%	.40*†	DTL	2Δ	8	0.0	8.0	80nΔ			65m	1.0	-55	125	4	G0427j	TO86
20	RDD930R	4M		MON	2.6%	.40†*	DTL	5Δ	9	0.0	8.0	30n			33m	1.0	-55	125	2	G041e	TO86
21	RDD932R	4M		MON	2.6%	.40†*	DTL	5Δ	22	0.0	8.0	20n			135m	1.0	-55	125	2	G04218	TO86
22	RDD944R	4M		MON	2.6%	.40†*	DTL	5Δ	22	0.0	8.0	15n			100m	1.0	-55	125	2	G04218a	TO86
23	RDD946R	4M		MON	2.6%	.40†*	DTL	2	9	0.0	8.0	30n			63m	1.0	-55	125	4	G0427	TO86
24	RDD962R	4M		MON	2.6%	.40†*	DTL	3	9	0.0	8.0	30n			50m	1.0	-55	125	3	G0492b	TO86
25	PD9930-59	4M		MON	2.6%	.45*†	DTL	5Δ	8	0.0	8.0	80nΔ			40m	1.0	0	75	2	G0427a	TO116
26	PD9932-59	4M		MON	2.6%	.45*†	DTL	5Δ		0.0	8.0	80nΔ			150m	1.0	0	75	2	G04154c	TO116
27	PD9944-59	4M		MON	2.6%	.45*†	DTL	5Δ		0.0	8.0	50nΔ			110m	1.0	0	75	2	G04154b	TO116
28	PD9946-59	4M		MON	2.6%	.45*†	DTL	2	8	0.0	8.0	80nΔ			80m	1.0	0	75	4	G0427	TO116
29	PD9946E59	4M		MON	2.6%	.45*†	DTL	2Δ	8	0.0	8.0	80nΔ			80m	1.0	0	75	4	G0427j	TO116
30	PE9930-59	4M		MON	2.6	.45	DTL	5Δ	8	0.0	5.0	80n			22m	1.0	0	75	2	G0492	M131
31	PE9932-59	4M		MON	2.6	.45	DTL	5Δ	25	0.0	5.0	80n			85m	1.0			2	G04154c	M131
32	PE9944-59	4M		MON	2.6	.45	DTL	5Δ	25	0.0	5.0	50n			65m	1.0			2	G04154	M131
33	PE9946-59	4M		MON	2.6	.45	DTL	2	8	0.0	5.0	80n			22m	1.0	0	75	4	G0492a	M131
34	PE9946E59	4M		MON	2.6	.45	DTL	2	8	0.0	5.0	80n			22m	1.0	0	75	4	G0427j	M131
35	PE9949-59	4M		MON	2.6	.45	DTL	2	7	0.0	5.0	50n			22m	1.0	0	75	4	G0492a	M131
36	PE9961-59	4M		MON	2.6	.45	DTL	5Δ	8	0.0	5.0	50n			22m	1.0	0	75	2	G0492	M131
37	PE9962-59	4M		MON	2.6	.45	DTL	3	8	0.0	5.0	80n			22m	1.0	0	75	3	G0492b	M131
38	PE9963-59	4M		MON	2.6	.45	DTL	3	7	0.0	5.0	50n			22m	1.0	0	75	3	G0492b	M131
39	PL9930-59	4M		MON	2.6%	.45*†	DTL	5Δ	8	0.0	8.0	80nΔ			40m	1.0	0	75	2	G0427a	TO86
40	PL9932-59	4M		MON	2.6%	.45*†	DTL	5Δ		0.0	8.0	80nΔ			150m	1.0	0	75	2	G04154c	TO86
41	PL9944-59	4M		MON	2.6%	.45*†	DTL	5Δ		0.0	8.0	50nΔ			110m	1.0	0	75	2	G04154b	TO86
42	PL9946-59	4M		MON	2.6%	.45*†	DTL	2	8	0.0	8.0	80nΔ			80m	1.0	0	75	4	G0427	TO86
43	PL9946E59	4M		MON	2.6%	.45*†	DTL	2Δ	8	0.0	8.0	80nΔ			80m	1.0	0	75	4	G0427j	TO86
44	PM9930-59	4M		MON	2.6%	.45*†	DTL	5Δ	8	0.0	8.0	80nΔ			40m	1.0	0	75	2	G0427a	TO116
45	PM9932-59	4M		MON	2.6%	.45*†	DTL	5Δ		0.0	8.0	80nΔ			150m	1.0	0	75	2	G04154c	TO116
46	PM9944-59	4M		MON	2.6%	.45*†	DTL	5Δ		0.0	8.0	50nΔ			110m	1.0	0	75	2	G04154b	TO116
47	PM9946-59	4M		MON	2.6%	.45*†	DTL	2	8	0.0	8.0	80nΔ			80m	1.0	0	75	4	G0427	TO116
48	PM9946E59	4M		MON	2.6%	.45*†	DTL	2Δ	8	0.0	8.0	80nΔ			80m	1.0	0	75	4	G0427j	TO116
49	SN54962	4M		MON	2.6%	.45*†	DTL	3	8	0	8	80nΔ			15m		-55	125	3	G04217b	TO84
50	WC944D	4M		MON	2.6%	.45*	DTL	5Δ	27	0	8	30n			65m†		0	75	2	G04154	M126b
51	WC946D	4M		MON	2.6%	.45*	DTL	2	8	0	8	30n			44m†		0	75	4	G04229a	M126b
52	WC962D	4M		MON	2.6%	.45*	DTL	3	8	0	8	30n			33m†		0	75	3	G04229f	M126b
53	WC963D	4M		MON	2.6%	.45*	DTL	3	7	0	8	25n			50m†		0	75	3	G04229f	M126b
54	A54F	4M		MON	2.7	1.7	DTL	2	5	0	5	18n	14n	5n	36m	900m	-55	125	4	G043ab	TO84
55	RD209	4M		MON	2.8	.25†	DTL	5Δ	12	0	5.5	7.0n			10m	1.2	-55	125	2	G04272	TO84
56	RD309	4M		MON	2.8	.25†	DTL	5Δ	8	0	5.5	7.0n			10m		-55	125	2	G04272	TO84
57	RD509	4M		MON	2.8	.30†	DTL	5Δ	12	0	5.5	7.0n			10m	1.2	0	75	2	G04272	TO84
58	NE8808A	4M		MON	2.8%	.40†*	TTL	8		0.0	6.0	25nΔ		50n	26m	600mΔ	0	75	1	G04273	TO116
59	NE8808J	4M		MON	2.8%	.40†*	TTL	8		0.0	6.0	25nΔ		50n	26m	600mΔ	0	75	1	G04273	TO88
60	NE8816A	4M		MON	2.8%	.4*†	TTL	4		0	6	25nΔ		50n	53m	600mΔ	0	75	2	G04273a	TO116
61	NE8816J	4M		MON	2.8%	.4*†	TTL	4		0	6	25nΔ		50n	53m	600mΔ	0	75	2	G04273a	TO88
62	SE8808A	4M		MON	2.8%	.40†*	TTL	8		0.0	6.0	25nΔ		50n	26m	600mΔ	-55	125	1	G04273	TO116
63	SE8808J	4M		MON	2.8%	.40†*	TTL	8		0.0	6.0	25nΔ		50n	26m	600mΔ	-55	125	1	G04273	TO88
64	SE8816A	4M		MON	2.8%	.4*†	TTL	4		0	6	25nΔ		50n	53m	600mΔ	-55	125	2	G04273a	TO116
65	SE8816J	4M		MON	2.8%	.4*†	TTL	4		0	6	25nΔ		50n	53m	600mΔ	-55	125	2	G04273a	TO88
66	DTL393059	4M		MON	2.8%	.45†*	DTL	5Δ	8	0.0	8.0	80nΔ			17m	500m	0	75	2	G04217	FP28
67	DTL393259	4M		MON	2.8%	.45†*	DTL	5Δ	25	0.0	8.0	80nΔ			100m	500m	0	75	2	G04207a	FP28
68	DTL394459	4M		MON	2.8%	.45†*	DTL	5Δ	25	0.0	8.0	50nΔ			74m	500m	0	75	2	G04154	FP28
69	DTL394659	4M		MON	2.8%	.45†*	DTL	2	8	0.0	8.0	80nΔ			34m	500m	0	75	4	G04217a	FP28
70	DTL396259	4M		MON	2.8%	.45†*	DTL	3	8	0.0	8.0	80nΔ			26m	500m	0	75	3	G04217b	FP28
71	DTL693059	4M		MON	2.8%	.45†*	DTL	5Δ	8	0.0	8.0	80nΔ			17m	500m	0	75	2	G04217	M54
72	DTL693259	4M		MON	2.8%	.45†*	DTL	5Δ	25	0.0	8.0	80nΔ			100m	500m	0	75	2	G04207a	M54
73	DTL694459	4M		MON	2.8%	.45†*	DTL	5Δ	25	0.0	8.0	50nΔ			74m	500m	0	75	2	G04154	M54
74	DTL694659	4M		MON	2.8%	.45†*	DTL	2	8	0.0	8.0	80nΔ			34m	500m	0	75	4	G04217a	M54
75	DTL696259	4M		MON	2.8%	.45†*	DTL	3	8	0.0	8.0	80nΔ			26m	500m	0	75	3	G04217b	M54
76	1264B3	4M		MON	3.0	0.0	DTL	3	15	0.0	8.0	25n		60n			-55	125	2	G04120	CN41
77	1264D2	4M		MON	3.0	0.0	DTL	2	5	8.0	8.0	30n			100m		-55	125	2	G04118	CN41
78	1264D3	4M		MON	3.0	0.0	DTL	3	15	0.0	8.0	25n		60n			-55	125	2	G04120	CN41
79	1264D4	4M		MON	3.0	0.0	DTL	4	15	0.0	8.0	25n		60n			-55	125	2	G04117	CN41
80	1264D5	4M		MON	3.0	0.0	DTL	3†	5	8.0	8.0				100m		-55	125	2	G04116	CN41
81	1264DR	4M		MON	3.0	0.0	DTL	3†	4	8.0	8.0				100m		-55	125	2	G04116a	CN41
82	1264E3	4M		MON	3.0	0.0	DTL	4Δ	15	0.0	8.0	25n		60n			-55	125	2	G04115	CN41
83	1264E4	4M		MON	3.0	0.0	DTL	5Δ	15	0.0	8.0	25n		60n			-55	125	2	G04114	CN41
84	1264G9	4M		MON	3.0	0.0	DTL	3	8	0.0	8.0	20n					-55	125	3	G04113	CN41
85	1264P	4M		MON	3.0	0.0	DTL	4Δ	20	8.0	8.0	40n			100m		-55	125	1	G04119	CN41
86	2264B3	4M		MON	3.0	0.0	DTL	3	15	0.0	8.0	25n		60n			-55	125	2	G04120	FP19a
87	2264D2	4M		MON	3.0	0.0	DTL	2	5	8.0	8.0	30n			100m		-55	125	2	G04118	FP19
88	2264D3	4M		MON	3.0	0.0	DTL	3	15	0.0	8.0	25n		60n			-55	125	2	G04120	FP19a
89	2264D4	4M		MON	3.0	0.0	DTL	4	15	0.0	8.0	25n		60n			-55	125	2	G04117	FP19a
90	2264D5	4M		MON	3.0	0.0	DTL	3†	5	8.0	8.0				100m		-55	125	2	G04116	FP19a
91	2264DR	4M		MON	3.0	0.0	DTL	3†	4	8.0	8.0				100m		-55	125	2	G04116a	FP19a
92	2264E3	4M		MON	3.0	0.0	DTL	4Δ	15	0.0	8.0	25n		60n			-55	125	2	G04115	FP19a
93	2264E4	4M		MON	3.0	0.0	DTL	5Δ	15	0.0	8.0	25n		60n			-55	125	2	G04114	FP19a
94	2264G9	4M		MON	3.0	0.0	DTL	3	8	0.0	8.0	20n					-55	125	3	G04113	FP19a
95	2264P	4M		MON	3.0	0.0	DTL	4Δ	20	8.0	8.0	40n			100m		-55	125	1	G04119	FP19
96	73B4	4M		MON	3.0%	.6†*	DTL	3†	4	8	8	50n			40m	800m	-55	125	2	G04256a	TO100
97	73B4P	4M		MON	3.0%	.6†*	DTL	3†	4	8	8	50n			40m	800m	-55	125	2	G04256a	TO91
98	CS720J	4M		MON	3.1%	.35*†	DTL	2	6	0	8	115nΔ		75n	150m	1.0 Δ	-55	125	4	G0489c	TO88
99	CS721J	4M		MON	3.1%	.35*†	DTL	3	6	0	8	115nΔ		75n	150m	1.0 Δ	-55	125	3	G0489d	TO88
100	CS727J	4M		MON	3.1%	.35*†	DTL	2Δ	6	0	8	115nΔ		75n	150m	1.0 Δ	-55	125	3	G0489e	TO88
101	CS730J	4M		MON	3.1%	.35*†	DTL	5	6	0	8	115nΔ		75n	150m	1.0 Δ	-55	125	2	G0489f	TO88
102	US720J	4M		MON	3.1%	.35*†	DTL	2	6	0	8	115nΔ		75n	150m	1.0 Δ	-55	125	4	G0489c	TO88
103	US721J	4M		MON	3.1%	.35*†	DTL	3	6	0	8	115nΔ		75n	150m	1.0 Δ	-55	125	3	G0489d	TO88
104	US727J	4M		MON	3.1%	.35*†	DTL	2Δ	6	0	8	115nΔ		75n	150m	1.0 Δ	-55	125	3	G0489e	TO88
105	US730J	4M		MON	3.1%	.35*†	DTL	5	6	0	8	115nΔ		75n	150m	1.0 Δ	-55	125	2	G0489f	TO88
106	NE455A	4M		MON	3.2%	.35†*	TTL	4	24†	0	6	25n%	10n	10n	24m	1.0 Δ	0	70	2	G04303	M105b
107	NE455J	4M		MON	3.2%	.35†*	TTL	4	24†	0	6	25n%	10n	10n	24m	1.0 Δ	0	70	2	G04303	TO88
108	SE111J	4M		MON	3.2%	.35*†	DTL	4	19	0	8.2	95n		5.0nΔ	150m		-55	125	2	G0485	TO88
109	TTuL103	4M		MON	3.2	.35	TTL	4	15	0.0	8.0	50n				1.0	-55	125	2	G04102	FP16
110	TTuL104	4M		MON	3.2	.35	TTL	8	15	0.0	8.0	50n				1.0	-55	125	1	G043v	FP16

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	SE455J	4M		MON	3.3	.25†	TTL	4	28	0	6	55n		75n	39m	1.0 Δ	-55	125	2	G04303	TO88
2	PD9633-61	4M		MON	3.3	.26	TTL	4	30†	0	5	25n	30n	30n	30m	1.0	-55	125	2	G04191	TO116
3	PD9633-69	4M		MON	3.3	.26	TTL	4	24†	0	5	25n	30n	30n	30m	1.0	0	75	2	G04191	TO116
4	PD9633-71	4M		MON	3.3	.26	TTL	4	15†	0	5	25n	30n	30n	30m	1.0	-55	125	2	G04191	TO116
5	PD9633-79	4M		MON	3.3	.26	TTL	4	12†	0	5	25n	30n	30n	30m	1.0	0	75	2	G04191	TO116
6	CD2200	4M		MON	3.4	.10†	DTL	5Δ	6	0	6.3	85n			4.6m	1.2 Δ	-55	125	2	G04315	FP44
7	CD2201	4M		MON	3.4	.10†	DTL	2	6	0	6.3	85n			9.2m	1.2 Δ	-55	125	4	G04315a	FP44
8	CD2202	4M		MON	3.4	.15†	DTL	5Δ	25	0	6.3	67n			28mΔ	1.2 Δ	-55	125	2	G04315	FP44
9	PD9620-61	4M		MON	3.5	.25	TTL	4	11	0	5	6.0n	2.5n	4.0n	40m	1.0	-55	125	2	G04240	TO116
10	PD9620-69	4M		MON	3.5	.25	TTL	4	9	0	5	6.0n	2.5n	4.0n	40m	1.0	0	75	2	G04240	TO116
11	PD9620-71	4M		MON	3.5	.25	TTL	4	6	0	5	6.0n	2.5n	4.0n	40m	1.0	-55	125	2	G04240	TO116
12	PD9620-79	4M		MON	3.5	.25	TTL	4	5	0	5	6.0n	2.5n	4.0n	40m	1.0	0	75	2	G04240	TO116
13	PD9621-61	4M		MON	3.5	.25	TTL	2	11	0	5	6.0n	2.5n	4.0n	80m	1.0	-55	125	4	G04240b	TO116
14	PD9621-69	4M		MON	3.5	.25	TTL	2	9	0	5	6.0n	2.5n	4.0n	80m	1.0	0	75	4	G04240b	TO116
15	PD9621-71	4M		MON	3.5	.25	TTL	2	6	0	5	6.0n	2.5n	4.0n	80m	1.0	-55	125	4	G04240b	TO116
16	PD9621-79	4M		MON	3.5	.25	TTL	2	5	0	5	6.0n	2.5n	4.0n	80m	1.0	0	75	4	G04240b	TO116
17	PD9622-61	4M		MON	3.5	.25	TTL	3	11	0	5	6.0n	2.5n	4.0n	60m	1.0	-55	125	3	G04240e	TO116
18	PD9622-69	4M		MON	3.5	.25	TTL	3	9	0	5	6.0n	2.5n	4.0n	60m	1.0	0	75	3	G04240e	TO116
19	PD9622-71	4M		MON	3.5	.25	TTL	3	6	0	5	6.0n	2.5n	4.0n	60m	1.0	-55	125	3	G04240e	TO116
20	PD9622-79	4M		MON	3.5	.25	TTL	3	5	0	5	6.0n	2.5n	4.0n	60m	1.0	0	75	3	G04240e	TO116
21	PD9625-61	4M		MON	3.5	.25	TTL	8	11	0	5	6.0n	3.0n	4.0n	20m	1.0	-55	125	1	G04240d	TO116
22	PD9625-69	4M		MON	3.5	.25	TTL	8	9	0	5	6.0n	3.0n	4.0n	20m	1.0	0	75	1	G04240d	TO116
23	PD9625-71	4M		MON	3.5	.25	TTL	8	6	0	5	6.0n	3.0n	4.0n	20m	1.0	-55	125	1	G04240d	TO116
24	PD9625-79	4M		MON	3.5	.25	TTL	8	5	0	5	6.0n	3.0n	4.0n	20m	1.0	0	75	1	G04240d	TO116
25	PL9620-61	4M		MON	3.5	.25	TTL	4	11	0	5	6.0n	2.5n	4.0n	40m	1.0	-55	125	2	G04240	TO86
26	PL9620-69	4M		MON	3.5	.25	TTL	4	9	0	5	6.0n	2.5n	4.0n	40m	1.0	0	75	2	G04240	TO86
27	PL9620-71	4M		MON	3.5	.25	TTL	4	6	0	5	6.0n	2.5n	4.0n	40m	1.0	-55	125	2	G04240	TO86
28	PL9620-79	4M		MON	3.5	.25	TTL	4	5	0	5	6.0n	2.5n	4.0n	40m	1.0	0	75	2	G04240	TO86
29	PL9621-61	4M		MON	3.5	.25	TTL	2	11	0	5	6.0n	2.5n	4.0n	80m	1.0	-55	125	4	G04240b	TO86
30	PL9621-69	4M		MON	3.5	.25	TTL	2	9	0	5	6.0n	2.5n	4.0n	80m	1.0	0	75	4	G04240b	TO86
31	PL9621-71	4M		MON	3.5	.25	TTL	2	6	0	5	6.0n	2.5n	4.0n	80m	1.0	-55	125	4	G04240b	TO86
32	PL9621-79	4M		MON	3.5	.25	TTL	2	5	0	5	6.0n	2.5n	4.0n	80m	1.0	0	75	4	G04240b	TO86
33	PL9622-61	4M		MON	3.5	.25	TTL	3	11	0	5	6.0n	2.5n	4.0n	60m	1.0	-55	125	3	G04240e	TO86
34	PL9622-69	4M		MON	3.5	.25	TTL	3	9	0	5	6.0n	2.5n	4.0n	60m	1.0	0	75	3	G04240e	TO86
35	PL9622-71	4M		MON	3.5	.25	TTL	3	6	0	5	6.0n	2.5n	4.0n	60m	1.0	-55	125	3	G04240e	TO86
36	PL9622-79	4M		MON	3.5	.25	TTL	3	5	0	5	6.0n	2.5n	4.0n	60m	1.0	0	75	3	G04240e	TO86
37	PL9625-61	4M		MON	3.5	.25	TTL	8	11	0	5	6.0n	3.0n	4.0n	20m	1.0	-55	125	1	G04240d	TO86
38	PL9625-69	4M		MON	3.5	.25	TTL	8	9	0	5	6.0n	3.0n	4.0n	20m	1.0	0	75	1	G04240d	TO86
39	PL9625-71	4M		MON	3.5	.25	TTL	8	6	0	5	6.0n	3.0n	4.0n	20m	1.0	-55	125	1	G04240d	TO86
40	PL9625-79	4M		MON	3.5	.25	TTL	8	5	0	5	6.0n	3.0n	4.0n	20m	1.0	0	75	1	G04240d	TO86
41	SG220	4M		MON	3.5	.25	TTL	2	11	0	5	6.0n	2.5n	4.0n	88m	1.0	-55	125	4	G04240b	ZB100
42	SG221	4M		MON	3.5	.25	TTL	2	6	0	5	6.0n	2.5n	4.0n	88m	1.0	-55	125	4	G04240b	ZB100
43	SG222	4M		MON	3.5	.25	TTL	2	9	0	5	6.0n	2.5n	4.0n	88m	1.0	0	75	4	G04240b	ZB100
44	SG223	4M		MON	3.5	.25	TTL	2	5	0	5	6.0n	2.5n	4.0n	88m	1.0	0	75	4	G04240b	ZB100
45	SG240	4M		MON	3.5	.25	TTL	4	11	0	5	6.0n	2.5n	4.0n	44m	1.0	-55	125	2	G04240	ZB100
46	SG241	4M		MON	3.5	.25	TTL	4	6	0	5	6.0n	2.5n	4.0n	44m	1.0	-55	125	2	G04240	ZB100
47	SG242	4M		MON	3.5	.25	TTL	4	9	0	5	6.0n	2.5n	4.0n	44m	1.0	0	75	2	G04240	ZB100
48	SG243	4M		MON	3.5	.25	TTL	4	5	0	5	6.0n	2.5n	4.0n	44m	1.0	0	75	2	G04240	ZB100
49	SG260	4M		MON	3.5	.25	TTL	8	11	0	5	6.0n	3.0n	4.0n	22m	1.0	-55	125	1	G04240a	ZB100
50	SG261	4M		MON	3.5	.25	TTL	8	6	0	5	6.0n	3.0n	4.0n	22m	1.0	-55	125	1	G04240a	ZB100
51	SG262	4M		MON	3.5	.25	TTL	8	9	0	5	6.0n	3.0n	4.0n	22m	1.0	0	75	1	G04240a	ZB100
52	SG263	4M		MON	3.5	.25	TTL	8	5	0	5	6.0n	3.0n	4.0n	22m	1.0	0	75	1	G04240a	ZB100
53	6G200G	4M		MON	3.5	.26	TTL	9Δ		0	5	11n	3.0n	4.5n	22m	1.0	-55	125	1	G04240c	TO84
54	6G200K	4M		MON	3.5	.26	TTL	9Δ		0	5	11n	3.0n	4.5n	22m	1.0	-55	125	1	G04240c	TO116
55	6G201G	4M		MON	3.5	.26	TTL	9Δ		0	5	11n	3.0n	4.5n	22m	1.0	-55	125	1	G04240c	TO84
56	6G201K	4M		MON	3.5	.26	TTL	9Δ		0	5	11n	3.0n	4.5n	22m	1.0	-55	125	1	G04240c	TO116
57	6G202D	4M		MON	3.5	.26	TTL	9Δ		0	5	11n	3.0n	4.5n	22m	1.0	0	75	1	G04240c	TO116
58	6G202G	4M		MON	3.5	.26	TTL	9Δ		0	5	11n	3.0n	4.5n	22m	1.0	0	75	1	G04240c	TO84
59	6G203D	4M		MON	3.5	.26	TTL	9Δ		0	5	11n	3.0n	4.5n	22m	1.0	0	75	1	G04240c	TO116
60	6G203G	4M		MON	3.5	.26	TTL	9Δ		0	5	11n	3.0n	4.5n	22m	1.0	0	75	1	G04240c	TO84
61	PD9634-61	4M		MON	3.5	.26	TTL	9Δ	11	0	5	11n	3.0n	4.5n	20m	1.0	-55	125	1	G04240c	TO116
62	PD9634-69	4M		MON	3.5	.26	TTL	9Δ	9	0	5	11n	3.0n	4.5n	20m	1.0	0	75	1	G04240c	TO116
63	PD9634-71	4M		MON	3.5	.26	TTL	9Δ	6	0	5	11n	3.0n	4.5n	20m	1.0	-55	125	1	G04240c	TO116
64	PD9634-79	4M		MON	3.5	.26	TTL	9Δ	5	0	5	11n	3.0n	4.5n	20m	1.0	0	75	1	G04240c	TO116
65	PL9634-61	4M		MON	3.5	.26	TTL	9Δ	11	0	5	11n	3.0n	4.5n	20m	1.0	-55	125	1	G04240c	TO86
66	PL9634-69	4M		MON	3.5	.26	TTL	9Δ	9	0	5	11n	3.0n	4.5n	20m	1.0	0	75	1	G04240c	TO86
67	PL9634-71	4M		MON	3.5	.26	TTL	9Δ	6	0	5	11n	3.0n	4.5n	20m	1.0	-55	125	1	G04240c	TO86
68	PL9634-79	4M		MON	3.5	.26	TTL	9Δ	5	0	5	11n	3.0n	4.5n	20m	1.0	0	75	1	G04240c	TO86
69	SG200	4M		MON	3.5	.26	TTL	9Δ		0	5	11n	3.0n	4.5n	22m	1.0	-55	125	1	G04240c	ZB100
70	SG201	4M		MON	3.5	.26	TTL	9Δ		0	5	11n	3.0n	4.5n	22m	1.0	-55	125	1	G04240c	ZB100
71	SG202	4M		MON	3.5	.26	TTL	9Δ		0	5	11n	3.0n	4.5n	22m	1.0	0	75	1	G04240c	ZB100
72	SG203	4M		MON	3.5	.26	TTL	9Δ		0	5	11n	3.0n	4.5n	22m	1.0	0	75	1	G04240c	ZB100
73	SFC301	4M		MON	3.5%	.65*	DTL	5	9	0	8	20n%			10m	650m	0	80	1	G04310	ZB163
74	SFC310	4M		MON	3.5%	.65*	DTL	4	9	0	8	25n%			40m	650m	0	80	1	G04312	ZB163
75	SFC315	4M		MON	3.5%	.65*	DTL	2	9	0	8	20n%			10m	650m	0	80	2	G04310a	ZB163
76	SFC330	4M		MON	3.5%	.65*	DTL	3†	9	0	8	20n%			10m	650m	0	80	2	G04310b	ZB163
77	SFC331	4M		MON	3.5%	.65*	DTL	3†	9	0	8	20n%			14m	650m	0	80	2	G04310c	ZB163
78	SFC350	4M		MON	3.5%	.65*	DTL	2	25	0	8	35n%			40m	650m	0	80	1	G04311	ZB163
79	NE8455A	4M		MON	3.6%	.35*†	DTL	4		0	6	60n		75n	50m	1.4	0	75	2	G04303	TO116
80	NE8455J	4M		MON	3.6%	.35*†	DTL	4		0	6	60n		75n	50m	1.4	0	75	2	G04303	TO88
81	NE8470A	4M		MON	3.6%	.35*†	TTL	3		0	6	60n		75n	45m	1.4	0	75	3	G04260a	TO116
82	NE8470J	4M		MON	3.6%	.35*†	TTL	3		0	6	60n		75n	45m	1.4	0	75	3	G04260a	TO88
83	NE8480A	4M		MON	3.6%	.35*†	TTL	2		0	6	60n		75n	60m	1.4	0	75	4	G04260	TO116
84	NE8480J	4M		MON	3.6%	.35*†	TTL	2		0	6	60n		75n	60m	1.4	0	75	4	G04260	TO88
85	SE8455A	4M		MON	3.6%	.35*†	DTL	4		0	6	60n		75n	50m	1.4	-55	125	2	G04303	TO116
86	SE8455J	4M		MON	3.6%	.35*†	DTL	4		0	6	60n		75n	50m	1.4	-55	125	2	G04303	TO88
87	SE8470A	4M		MON	3.6%	.35*†	TTL	3		0	6	60n		75n	45m	1.4	-55	125	3	G04260a	TO116
88	SE8470J	4M		MON	3.6%	.35*†	TTL	3		0	6	60n		75n	45m	1.4	-55	125	3	G04260a	TO88
89	SE8480A	4M		MON	3.6%	.35*†	TTL	2		0	6	60n		75n	60m	1.4	-55	125	4	G04260	TO116
90	SE8480J	4M		MON	3.6%	.35*†	TTL	2		0	6	60n		75n	60m	1.4	-55	125	4	G04260	TO88
91	PD9937-51	4M		MON	3.8%	.40*†	DTL	1	8	0.0	8.0	50nΔ			160m		-55	125	6	G04310e	TO116
92	PD9949-51	4M		MON	3.8%	.40*†	DTL	2	8	0.0	8.0	50nΔ			110m	1.0	-55	125	4	G0492g	TO116
93	PD9961-51	4M		MON	3.8%	.40*†	DTL	5Δ	8	0.0	8.0	50nΔ			55m	1.0	-55	125	2	G0492	TO116
94	PD9963-51	4M		MON	3.8%	.40*†	DTL	3	8	0.0	8.0	50nΔ			80m	1.0	-55	125	3	G0427q	TO116
95	PL9937-51	4M		MON	3.8%	.40*†	DTL	1	8	0.0	8.0	50nΔ			160m		-55	125	6	G04310e	TO86
96	PL9949-51	4M		MON	3.8%	.40*†	DTL	2	8	0.0	8.0	50nΔ			110m	1.0	-55	125	4	G0492g	TO86
97	PL9961-51	4M		MON	3.8%	.40*†	DTL	5Δ	8	0.0	8.0	50nΔ			55m	1.0	-55	125	2	G0492	TO86
98	PL9963-51	4M		MON	3.8%	.40*†	DTL	3	8	0.0	8.0	50nΔ			80m	1.0	-55	125	3	G0427q	TO86
99	CS700G	4M		MON	3.9%	.4†*	DTL	3†	5	0	8	35n	10n	10n		1.0 Δ	-55	125	2	G0482c	TO91
100	CS700K	4M		MON	3.9%	.4†*	DTL	3†	5	0	8.2	35n	10n	10n		1.0 Δ	-55	125	2	G0482c	CN17
101	CS701G	4M		MON	3.9%	.4†*	DTL	3†	5	0	8.2	35n	10n	10n		1.0 Δ	-55	125	2	G0482d	TO91
102	CS701K	4M		MON	3.9%	.4†*	DTL	3†	5	0	8.2	35n	10n	10n		1.0 Δ	-55	125	2	G0482d	CN17
103	CS716K	4M		MON	3.9%	.4†*	DTL	3Δ	15	0	8.2	35n	10n	10n		1.0 Δ	-55	125	2	G0483b	CN17
104#	FFH101A2	4M		MON	3.9%	.40*	DTL	5Δ	5	8.0	8	24n			7.5m	1.0	0	75	1	G04141	TO74
105#	FFH101C1	4M		MON	3.9%	.40*	DTL	5Δ	5	8.0	8	24n			7.5m	1.0	0	75	1	G04141	TO91
106#	FFH111A2	4M		MON	3.9%	.40*	DTL	3†	5	8.0	8	24n			15m	1.0	0	75	2	G04290	TO74
107#	FFH111C1	4M		MON	3.9%	.40*	DTL	3†	5	8.0	8	24n			15m	1.0	0	75	2	G04290	TO91
108	NE101G	4M		MON	3.9%	.45†*	DTL	5Δ	5	6	6.2				250m		0	70	1	G0482	TO91
109	NE101K	4M		MON	3.9%	.45†*	DTL	5Δ	5	6	6.2	35n%			250m	1.0 Δ	0	70	1	G0482	CN17
110	NE102G	4M		MON	3.9%	.45†*	DTL	4Δ	5	6	6.2				250m		0	70	1	G0482a	TO91

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	NE102K	4M		MON	3.9%	.45†*	DTL	4Δ	5	6	6.2	35n%			250m	1.0 Δ	0	70	1	G0482a	CN17
2	NE112A	4M		MON	3.9%	.45*†	DTL	4Δ	19	0	6.2	85nΔ			68m†		0	70	2	G0485d	TO116
3	NE112J	4M		MON	3.9%	.45*†	DTL	4Δ	19	0	6.2	85nΔ			68m†		0	70	2	G0485a	TO88
4	NE113K	4M		MON	3.9%	.45†*	DTL	3	15	0	6				250m		0	70	2	G0483a	CN17
5	NE115G	4M		MON	3.9%	.45†*	DTL	2	5	6	6.2				250m		0	70	2	G0482b	TO91
6	NE115K	4M		MON	3.9%	.45†*	DTL	2	5	6	6.2	35n%			250m	1.0 Δ	0	70	2	G0482b	CN17
7	NE116A	4M		MON	3.9%	.45*†	DTL	5Δ	6	0	6.2	65nΔ			30m†		0	70	2	G0489j	TO116
8	NE116J	4M		MON	3.9%	.45*†	DTL	5Δ	6	0	6.2	65nΔ			30m†		0	70	2	G0489	TO88
9	NE170A	4M		MON	3.9%	.45*†	DTL	3	6	0	6.2	65nΔ			45m†		0	70	3	G0489h	TO116
10	NE170J	4M		MON	3.9%	.45*†	DTL	3	6	0	6.2	65nΔ			45m†		0	70	3	G0489a	TO88
11	NE180A	4M		MON	3.9%	.45*†	DTL	2	6	0	6.2	65nΔ			60m†		0	70	4	G0489g	TO116
12	NE180J	4M		MON	3.9%	.45*†	DTL	2	6	0	6.2	65nΔ			60m†		0	70	4	G0489b	TO88
13	NS700G	4M		MON	3.9%	.45†*	DTL	3	5	6	6.2				250m		0	70	2	G0482d	ZB105
14	NS700K	4M		MON	3.9%	.45†*	DTL	3	5	6	6.2				250m		0	70	2	G0482d	CN17
15	NS701G	4M		MON	3.9%	.45†*	DTL	3	5	6	6.2				250m		0	70	2	G0482c	ZB105
16	NS701K	4M		MON	3.9%	.45†*	DTL	3	5	6	6.2				250m		0	70	2	G0482c	CN17
17	SE101G	4M		MON	3.9%	.45†*	DTL	5Δ	5	0	8.2	35n%			250m	1.0 Δ	-55	125	1	G0482	TO91
18	SE101K	4M		MON	3.9%	.45†*	DTL	5Δ	5	0	8.2	35n%			250m	1.0 Δ	-55	125	1	G0482	CN17
19	SE102G	4M		MON	3.9%	.45†*	DTL	4Δ	5	0	8.2	35n%			250m	1.0 Δ	-55	125	1	G0482a	TO91
20	SE102K	4M		MON	3.9%	.45†*	DTL	4Δ	5	0	8.2	35n%			250m	1.0 Δ	-55	125	1	G0482a	CN17
21	SE112J	4M		MON	3.9%	.45†*	DTL	4Δ	19	0	8.2	20n%			250m	1.0 Δ	-55	125	2	G0485a	TO88
22	SE113K	4M		MON	3.9%	.45†*	DTL	3	15	0	8.2	20n%			250m	1.0 Δ	-55	125	2	G0485c	CN17
23	SE115G	4M		MON	3.9%	.45†*	DTL	2	5	0	8.2	35n%			250m	1.0 Δ	-55	125	2	G0482b	TO91
24	SE115K	4M		MON	3.9%	.45†*	DTL	2	5	0	8.2	35n%			250m	1.0 Δ	-55	125	2	G0482b	CN17
25	SE116J	4M		MON	3.9%	.45†*	DTL	5Δ	6	0	8.2	25n%			250m	1.0 Δ	-55	125	2	G0489	TO88
26	SE170J	4M		MON	3.9%	.45†*	DTL	3	6	0	8.2	25n			250m	1.0 Δ	-55	125	3	G0489a	TO88
27	SE180J	4M		MON	3.9%	.45†*	DTL	2	6	0	8.2	25n			250m	1.0 Δ	-55	125	4	G0489b	TO88
28	NE110G	4M		MON	3.9%	.55†*	DTL	4Δ	20	6	6				250m		0	70	1	G0483	TO91
29	NE110K	4M		MON	3.9%	.55†*	DTL	4Δ	20	6	6	20n%			250m		0	70	1	G0483	CN17
30	SE110G	4M		MON	3.9%	.55†*	DTL	4Δ	20	0	8.2	20n%			250m		-55	125	1	G0483	TO91
31	SE110K	4M		MON	3.9%	.55†*	DTL	4Δ	20	0	8.2	20n%			250m		-55	125	1	G0483	CN17
32	SN7311N	4M		MON	4.0*	.40*	TTL	5	10	0.0	4.0	25n	45n	40n			0	70	2	G04200	M⧄
33	SN7331N	4M		MON	4.0*	.40*	TTL	3	10	0.0	4.0	25n	45n	40n			0	70	3	G04200a	M⧄
34#	44B4	4M		MON	4.0%	.6*†	DTL	5Δ	5	8	8	40n			8.0m		-55	125	1	G0495	TO100
35#	44B4P	4M		MON	4.0%	.6*†	DTL	5Δ	5	8	8	40n			8.0m		-55	125	1	G0495	TO91
36#	63B4	4M		MON	4.0%	.6*†	DTL	4Δ	5	8	8	35n			8.0m		-55	125	1	G0495a	TO100
37#	63B4P	4M		MON	4.0%	.6*†	DTL	4Δ	5	8	8	35n			8.0m		-55	125	1	G0495a	TO91
38	PD9937-59	4M		MON	4.3%	.45*†	DTL	1	8	0.0	8.0	50nΔ			180m		0	75	6	G04310e	TO116
39	PD9949-59	4M		MON	4.3%	.45*†	DTL	2	8	0.0	8.0	50nΔ			120m	1.0	0	75	4	G0492g	TO116
40	PD9961-59	4M		MON	4.3%	.45*†	DTL	5Δ	8	0.0	8.0	50nΔ			60m	1.0	0	75	2	G0492	TO116
41	PD9963-59	4M		MON	4.3%	.45*†	DTL	3	8	0.0	8.0	50nΔ			90m	1.0	0	75	3	G0427q	TO116
42	PL9937-59	4M		MON	4.3%	.45*†	DTL	1	8	0.0	8.0	50nΔ			180m		0	75	6	G04310e	TO86
43	PL9949-59	4M		MON	4.3%	.45*†	DTL	2	8	0.0	8.0	50nΔ			120m	1.0	0	75	4	G0492g	TO86
44	PL9961-59	4M		MON	4.3%	.45*†	DTL	5Δ	8	0.0	8.0	50nΔ			60m	1.0	0	75	2	G0492	TO86
45	PL9963-59	4M		MON	4.3%	.45*†	DTL	3	8	0.0	8.0	50nΔ			90m	1.0	0	75	3	G0427q	TO86
46	PM9937-59	4M		MON	4.3%	.45*†	DTL	1	8	0.0	8.0	50nΔ			180m		0	75	6	G04310e	TO116
47	PM9949-59	4M		MON	4.3%	.45*†	DTL	2	8	0.0	8.0	50nΔ			120m	1.0	0	75	4	G0492g	TO116
48	PM9961-59	4M		MON	4.3%	.45*†	DTL	5Δ	8	0.0	8.0	50nΔ			60m	1.0	0	75	2	G0492	TO116
49	PM9963-59	4M		MON	4.3%	.45*†	DTL	3	8	0.0	8.0	50nΔ			90m	1.0	0	75	3	G0427q	TO116
50	RD205	4M		MON	4.5	.25†	DTL	3	8	0	5.5	7.0n			10m	1.2	-55	125	3	G04271	TO84
51	RD206	4M		MON	4.5	.25†	DTL	2	8	0	5.5	7.0n			10m	1.2	-55	125	4	G04271a	TO84
52	RD210	4M		MON	4.5	.25†	DTL	5Δ	8	0	5.5	7.0n			10m	1.2	-55	125	2	G04271b	TO84
53	RD305	4M		MON	4.5	.25†	DTL	3	5	0	5.5	7.0n			10m		-55	125	3	G04271	TO84
54	RD306	4M		MON	4.5	.25†	DTL	2	5	0	5.5	7.0n			10m		-55	125	4	G04271a	TO84
55	RD310	4M		MON	4.5	.25†	DTL	5Δ	5	0	5.5	7.0n			10m		-55	125	2	G04271b	TO84
56	RD505	4M		MON	4.5	.30†	DTL	3	8	0	8	7.0n			10m	1.2	0	75	3	G04271	TO84
57	RD506	4M		MON	4.5	.30†	DTL	2	8	0	5.5	7.0n			10m	1.2	0	75	4	G04271a	TO84
58	RD510	4M		MON	4.5	.30†	DTL	5Δ	8	0	5.5	7.0n			10m	1.2	0	75	2	G04271b	TO84
59	SI930D	4M		MON	4.5	.30	DTL	5Δ	7	0.0	6.0	21n			25m	700m	0	75	2	G04153	FP28
60	SI932D	4M		MON	4.5	.30	DTL	5Δ	25	0.0	5.0	40n			56m	700m	0	75	2	G04154a	FP28
61	SI944D	4M		MON	4.5	.30	DTL	5Δ	27	0.0	5.0	50n			42m	700m	0	75	2	G04154	FP28
62	SI946D	4M		MON	4.5	.30	DTL	2	8	0.0	5.0	35n			32m	700m	0	75	4	G04153a	FP28
63	SI962D	4M		MON	4.5	.30	DTL	3	8	0.0	5.0	35n			24m	700m	0	75	3	G04153c	FP28
64	4JD12X101	4M		MON	6.0	0.0	DTL	4	5	10	10	25n			6.0m	500m	-55	125	1	G0452	CN23
65	MC650G	4M		MON	9.7%	.75†	VTL	4†	5	10	10	50n			165m	3.7	0	75	2	G04239	CN42
66	MC651F	4M		MON	9.7%	.75†	VTL	5†	5	10	10	50n			165m	3.7	0	75	2	G04239a	TO86
67	UC1001B	4M		TFH	6.0	0.0	DTL	4Δ	4	8	15	12n	55n†	19n†	35m	500m	-55	125	1	G0445	M55
68	RG132P	4M	20	MON	3.4	.20	TTL	4	24	0.0	5.0	15n			60m†	1.1	0	75	2		M105k
69	RG133P	4M	20	MON	3.4	.20	TTL	4	12	0.0	5.0	15n			60m†	1.1	0	75	2		M105k
70	RG7510P	4M	20	MON	3.4	.20	TTL	2	30	0.0	5.0	15n			120m†	1.1	-55	125	4		M105k
71	RG7511P	4M	20	MON	3.4	.20	TTL	2	15	0.0	5.0	15n			120m†	1.1	-55	125	4		M105k
72	RG7512P	4M	20	MON	3.4	.20	TTL	2	24	0.0	5.0	15n			120m†	1.1	0	75	4		M105k
73	RG7513P	4M	20	MON	3.4	.20	TTL	2	12	0.0	5.0	15n			120m†	1.1	0	75	4		M105k
74	10A	4M	10k%	3DM	0.0	12.5Δ	RTL	5	1	6.0	24	8.0u	7.0n	5.0n	12m	750mΔ	-10	70	2	G04173	ZB38
75	10B	4M	10k%	3DM	0.0	12.5Δ	RTL	4	2	6.0	24	8.0u	6.5n	5.0n	30m	750mΔ	-10	70	2	G04173a	ZB38
76	10C	4M	10k%	3DM	0.0	12.5Δ	RTL	3	3	6.0	24	8.0u	6.5n	7.0n	50m	750mΔ	-10	70	2	G04173b	ZB38
77	10D	4M	10k%	3DM	0.0	12.5Δ	RTL	2	4	6.0	24	8.0u	6.5n	8.0n	60m	750mΔ	-10	70	4	G04174	ZB38
78	DI130	4M	1.0M	PCB	6.0	0.0†	DTL	3†	7	12	18	80n			1.4	1.5 *	-55	100	8	G04266a	CB13a
79	DJ130	4M	1.0M	PCB	6.0	0.0†	DTL	3Δ	7	12	18				1.0	1.5 *	-55	100	6	G04267a	CB13a
80	DL130	4M	1.0M	PCB	6.0	0.0†	DTL	3†	7	12	18				1.4	1.5 *	-55	100	8	G04266b	CB13a
81	8050	4M	1.0M	PCB	-4.4	0.0	RTL	4	8	20	20	100n	50n	100n	1.8	1.4	0	55	8	G047	CB2
82	RM204Q	4M	5.0M	MON	1.0	1.8	DTL	5Δ	11†	0.0	10	35n			9.5m	550m	-55	125	1	G0428m	FP46
83	RM214Q	4M	5.0M	MON	1.0	1.8	DTL	7Δ	11†	0.0	10	35n			9.5m	550m	-55	125	1	G0428e	FP46
84	RM224Q	4M	5.0M	MON	1.0	1.8	DTL	9Δ	11†	0.0	10	35n			9.5m	550m	-55	125	1	G0428g	FP46
85	PA336	4M	5.0M	PCB	1.55*	1.35%	DTL	3	25		6	30n			780m		0	55	6		CB13
86	NC1011	4M	8.0M	MON	.82	.57	RTL	4	5†	2.7	3.3	13n	20n	28n	4.0m	256m	-55	125	1	G04171	CN29
87	NC2010	4M	8.0M	MON	.82	.57	RTL	4	5†	2.7	3.3	13n	20n	28n	4.0m	256m	0	100	1	G04172	CN29
88	NC2011	4M	8.0M	MON	.82	.57	RTL	4	5†	2.7	3.3	13n	20n	28n	4.0m	256m	0	100	1	G04171	CN29
89	NC3010	4M	8.0M	MON	.82	.57	RTL	4	5†	2.7	3.3	13n	20n	28n	4.0m	256m	15	55	1	G04172	CN29
90	NC3011	4M	8.0M	MON	.82	.57	RTL	4	5†	2.7	3.3	13n	20n	28n	4.0m	256m	15	55	1	G04171	CN29
91	NC1010	4M	10M	MON	.82	.57	RTL	4	5†	2.7	3.3	13n	20n	28n	4.0m	256m	-55	125	1	G04172	CN29
92	B01F	4M	10M	MON	2.3	.50	TTL	8	12	0.0	5.0	10n			16m	300m	-55	125	1	G04150	TO84
93	B02F	4M	10M	MON	2.3	.50	TTL	4	12	0	5	10n			33m	300m	-55	125	2	G04151	TO84
94	SN1501	4M	10M	MON	2.5	.40†	DTL	5Δ	8	0.0	5.5	25n			10m	750m	-55	125	2	G04217	TO84
95	SN1503	4M	10M	MON	2.5	.40†	DTL	2	8	0.0	5.5	25n			20m	750m	-55	125	4	G04217a	TO84
96	SN1504	4M	10M	MON	2.5	.40†	DTL	5Δ	27	0.0	5.5	15n			10m	750m	-55	125	2	G04218a	TO84
97	SN1505	4M	10M	MON	2.5	.40†	DTL	3	8	0.0	5.5	25n			15m	750m	-55	125	3	G04217b	TO84
98	A01A	4M	10M	MON	2.7	1.7	DTL	5Δ	15	0	5	18n	14n†	5.0n†	9.0m	900m	-55	125	1	G04148	CN16
99	A01F	4M	10M	MON	2.7	1.7	DTL	5Δ	15	0	5	18n	14n†	5.0n†	9.0m	900m	-55	125	1	G04148	TO84
100	A02A	4M	10M	MON	2.7	1.7	DTL	4	15	0	5	18n	14n†	5.0n†	18m	900m	-55	125	2	G04149	CN16a
101	A02F	4M	10M	MON	2.7	1.7	DTL	4	15	0	5	18n	14n†	5.0n†	18m	900m	-55	125	2	G04149	TO84
102	A05A	4M	10M	MON	2.7	1.7	DTL	4	10	0	5	12n			36m	900m	-55	125	2	G04149a	CN16a
103	A05F	4M	10M	MON	2.7	1.7	DTL	4	10	0	5	12n			36m	900m	-55	125	2	G04149a	TO84
104	A06A	4M	10M	MON	2.7	1.7	DTC	5Δ	5	0	5	18n	14n†	5.0n†	9.0m	900m	-55	125	1	G04148	CN16
105	A06F	4M	10M	MON	2.7	1.7	DTC	5Δ	5	0	5	18n	14n†	5.0n†	9.0m	900m	-55	125	1	G04148	TO84
106	A07A	4M	10M	MON	2.7	1.7	DTC	4	5	0	5	18n	14n†	5.0n†	18m	900m	-55	125	2	G04149	CN16a
107	A07F	4M	10M	MON	2.7	1.7	DTC	4	5	0	5	18n	14n†	5.0n†	18m	900m	-55	125	2	G04149	TO84
108	A10A	4M	10M	MON	2.7	1.7	DTC	54	10	0	5	12n			18m	900m	-55	125	1	G04148a	CN16
109	A10F	4M	10M	MON	2.7	1.7	DTC	54	10	0	5	12n			18m	900m	-55	125	1	G04148a	TO84
110	A12A	4M	10M	MON	2.7	1.7	DTL	4	5	0	5	12n			36m	900m	-55	125	2	G04149a	CN16a

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	A12F	4M	10M	MON	2.7	1.7	DTL	4	5	0	5	12n			36m	900m	-55	125	2	G04149a	TO84
2	A13A	4M	10M	MON	2.7	1.7	DTL	5Δ	5	0	5	12n			18m	900m	-55	125	1	G04148a	CN16
3	A13F	4M	10M	MON	2.7	1.7	DTL	5Δ	5	0	5	12n			18m	900m	-55	125	1	G04148a	TO84
4	A14F	4M	10M	MON	2.7	1.7	DTL	2	5	0.0	5.0	18n	14n†	5.0n†	36m	900m		T7	4	G043ab	TO84
5	A15F	4M	10M	MON	2.7	1.7	DTL	2	10	0	5	18n	14n†	5.0n†	36m	900m	-55	125	4	G043ab	TO84
6	A20A	4M	10M	MON	2.7	1.7	DTL	4		0	5				14m	200m	-55	125	2	G04149a	CN16a
7	A20F	4M	10M	MON	2.7	1.7	DTL	4		0	5				14m	200m	-55	125	2	G04149a	TO84
8	A41A	4M	10M	MON	2.7	1.7	DTL	5Δ	15	0	5	18n	14n†	5.0n†	9.0m	900m	0	70	1	G04148	CN16
9	A41F	4M	10M	MON	2.7	1.7	DTL	5Δ	15	0	5	18n	14n†	5.0n†	9.0m	900m	0	70	1	G04148	TO84
10	A42A	4M	10M	MON	2.7	1.7	DTL	4	15	0	5	18n	14n†	5.0n†	18m	900m	0	70	2	G04149	CN16a
11	A42F	4M	10M	MON	2.7	1.7	DTL	4	15	0	5	18n	14n†	5.0n†	18m	900m	0	70	2	G04149	TO84
12	A45A	4M	10M	MON	2.7	1.7	DTC	4	10	0	5	12n			36m	900m	0	70	2	G04149a	CN16a
13	A45F	4M	10M	MON	2.7	1.7	DTC	4	10	0	5	12n			36m	900m	0	70	2	G04149a	TO84
14	A46A	4M	10M	MON	2.7	1.7	DTC	5Δ	5	0	5	18n	14n†	5.0n†	9.0m	900m	0	70	1	G04148	CN16
15	A46F	4M	10M	MON	2.7	1.7	DTC	5Δ	5	0	5	18n	14n†	5.0n†	9.0m	900m	0	70	1	G04148	TO84
16	A47A	4M	10M	MON	2.7	1.7	DTC	4	5	0	5	18n	14n†	5.0n†	18m	900m	0	70	2	G04149	CN16a
17	A47F	4M	10M	MON	2.7	1.7	DTC	4	5	0	5	18n	14n†	5.0n†	18m	900m	0	70	2	G04149	TO84
18	A50A	4M	10M	MON	2.7	1.7	DTC	54	10	0	5	12n			18m	900m	0	70	1	G04148a	CN16
19	A50F	4M	10M	MON	2.7	1.7	DTC	54	10	0	5	12n			18m	900m	0	70	1	G04148a	TO84
20	A52A	4M	10M	MON	2.7	1.7	DTL	4	5	0	5	12n			36m	900m	0	70	2	G04149a	CN16a
21	A52F	4M	10M	MON	2.7	1.7	DTL	4	5	0	5	12n			36m	900m	0	70	2	G04149a	TO84
22	A53A	4M	10M	MON	2.7	1.7	DTL	5Δ	5	0	5	12n			18m	900m	0	70	1	G04148a	CN16
23	A53F	4M	10M	MON	2.7	1.7	DTL	5Δ	5	0	5	12n			18m	900m	0	70	1	G04148a	TO84
24	A55F	4M	10M	MON	2.7	1.7	DTL	2	10	0	5	18n	14n†	5.0n†	36m	900m	-55	125	4	G043ab	TO84
25	A60A	4M	10M	MON	2.7	1.7	DTL	4		0	5				14m	200m	0	70	2	G04149a	CN16a
26	A60F	4M	10M	MON	2.7	1.7	DTL	4		0	5				14m	200m	0	70	2	G04149a	TO84
27	6109	4M	10M	PCB	0.0	-3.0	RCT	3†	9	15	10	12n	30n	40n	727m	500m	-20	55	4	G04121	CB30
28	6123	4M	10M	PCB	0.0	-3.0	RCT	2	9	15	10	12n	40n	60n	1.2	500m	-20	55	6	G04122	CB30
29	MC201F	4M	15M	MON	4.0	.30	DTL	5Δ	5	8	8	30n			8.5m	500m	-55	125	1	G04141	TO91
30	MC201G	4M	15M	MON	4.0	.30	DTL	5Δ	5	8	8	30n			8.5m	500m	-55	125	1	G04141	CN8
31	MC202F	4M	15M	MON	4.0	.30	DTL	4Δ	5	8	8	30n			8.5m	500m	-55	125	1	G04141a	TO91
32	MC202G	4M	15M	MON	4.0	.30	DTL	4Δ	5	8	8	30n			8.5m	500m	-55	125	1	G04141a	CN8
33	MC204F	4M	15M	MON	4.0	.30	DTL	4Δ	20	6	8	40n			60m	500m	-55	125	1	G04140	TO91
34	MC204G	4M	15M	MON	4.0	.30	DTL	4Δ	20	6	8	40n			60m	500m	-55	125	1	G04140	CN8
35	MC206F	4M	15M	MON	4.0	.30	DTL	2	5	8	8	30n			17m	500m	-55	125	2	G04138	TO91
36	MC206G	4M	15M	MON	4.0	.30	DTL	2	5	8	8	30n			17m	500m	-55	125	2	G04138	CN8
37	MC207F	4M	15M	MON	4.0	.30	DTL	3†	5	8	8	30n			17m	500m	-55	125	2	G04142	TO91
38	MC207G	4M	15M	MON	4.0	.30	DTL	3†	5	8	8	30n			17m	500m	-55	125	2	G04142	CN8
39	MC208F	4M	15M	MON	4.0	.30	DTL	3†	4	8	8	30n			30m	500m	-55	125	2	G04290	TO91
40	MC208G	4M	15M	MON	4.0	.30	DTL	3†	4	8	8	30n			30m	500m	-55	125	2	G04290	CN8
41	MC212F	4M	15M	MON	4.0	.30	DTL	3	5	0	8	30n			15m	500m	-55	125	2	G04143	TO91
42	MC212G	4M	15M	MON	4.0	.30	DTL	3	5	0	8	30n			15m	500m	-55	125	2	G04143	CN8
43	MC213F	4M	15M	MON	4.0	.30	DTL	3	4	0	8	30n			30m	500m	-55	125	2	G04139	TO91
44	MC213G	4M	15M	MON	4.0	.30	DTL	3	4	0	8	30n			30m	500m	-55	125	2	G04139	CN8
45	MC251F	4M	15M	MON	4.0	.30	DTL	5Δ	5	8	8	30n			10m	500m	0	75		G04141	TO91
46	MC251G	4M	15M	MON	4.0	.30	DTL	5Δ	5	8	8	30n			10m	500m	0	75		G04141	CN8
47	MC252F	4M	15M	MON	4.0	.30	DTL	4Δ	5	8	8	30n			10m	500m	0	75		G04141a	TO91
48	MC252G	4M	15M	MON	4.0	.30	DTL	4Δ	5	8	8	30n			10m	500m	0	75		G04141a	CN8
49	MC256F	4M	15M	MON	4.0	.30	DTL	2	10	8	8	30n			20m	500m	0	75	2	G04138	TO91
50	MC256G	4M	15M	MON	4.0	.30	DTL	2	10	8	8	30n			20m	500m	0	75	2	G04138	CN8
51	MC257F	4M	15M	MON	4.0	.30	DTL	3†	10	8	8	30n			20m	500m	0	75	2	G04142	TO91
52	MC257G	4M	15M	MON	4.0	.30	DTL	3†	10	8	8	30n			20m	500m	0	75	2	G04142	CN8
53	MC258F	4M	15M	MON	4.0	.30	DTL	3†	8	8	8	30n			34m	500m	0	75	2	G04290	TO91
54	MC258G	4M	15M	MON	4.0	.30	DTL	3†	8	8	8	30n			34m	500m	0	75	2	G04290	CN8
55	MC262F	4M	15M	MON	4.0	.30	DTL	3	10	0	8	30n			19m	500m	0	75	2	G04290	TO91
56	MC262G	4M	15M	MON	4.0	.30	DTL	3	10	0	8	30n			19m	500m	0	75	2	G04290	CN8
57	MC263F	4M	15M	MON	4.0	.30	DTL	3	8	0	8	30n			33m	500m	0	75	2	G04139	TO91
58	MC263G	4M	15M	MON	4.0	.30	DTL	3	8	0	8	30n			33m	500m	0	75	2	G04139	CN8
59#	MMG190#1	4M	20M	MON	1.7%	1.2*	TTL	3	15	0.0	5.0	10n			15m	1.0	-55	125	3	G04212e	FP18
60#	MMG190#2	4M	20M	MON	1.7%	1.2*	TTL	3	15	0.0	5.0	10n			15m	1.0	-55	125	3	G04212e	M75
61#	MMG191#1	4M	20M	MON	1.7%	1.2*	TTL	3	15	0.0	5.0	10n			15m	1.0	-55	125	3	G04212e	FP18
62#	MMG191#2	4M	20M	MON	1.7%	1.2*	TTL	3	15	0.0	5.0	10n			15m	1.0	-55	125	3	G04212e	M75
63	TNG3131	4M	20M	MON	3.0	.30	TTL	2	7	0.0	7.0	15n			15m	1.0 Δ	15	55	2	G0478j	CN13a
64	TNG3331	4M	20M	MON	3.0	.30	TTL	4	7	0.0	7.0	15n			30m	1.0 Δ	15	55	1	G0478n	CN13a
65	TNG3431	4M	20M	MON	3.0	.30	TTL	4	7	0.0	7.0	15n			30m	1.0 Δ	15	55	1	G0478p	CN13a
66	TNG4131	4M	20M	MON	3.0	.30	TTL	4Δ	7	0.0	7.0	15n			15m	1.0 Δ	15	55	1	G0478g	CN13a
67	TNG5131	4M	20M	MON	3.0	.30	TTL	4Δ	7	0	7	15n			15m	1.0 Δ	15	55	1	G04220	CN13a
68	6G40G	4M	20M	MON	3.3	.26	TTL	4	15†	0	5	10n	5.0n	8.0n	15m	900m	-55	125	2	G0471	TO84
69	6G40K	4M	20M	MON	3.3	.26	TTL	4	15†	0	5	10n	5.0n	8.0n	15m	900m	-55	125	2	G0471	TO116
70	6G41G	4M	20M	MON	3.3	.26	TTL	4	7†	0	5	10n	5.0n	8.0n	15m	900m	-55	125	2	G0471	TO84
71	6G41K	4M	20M	MON	3.3	.26	TTL	4	7†	0	5	10n	5.0n	8.0n	15m	900m	-55	125	2	G0471	TO116
72	6G42D	4M	20M	MON	3.3	.26	TTL	4	12†	0	5	10n	5.0n	8.0n	15m	900m	0	75	2	G0471	TO116
73	6G42G	4M	20M	MON	3.3	.26	TTL	4	12†	0	5	10n	5.0n	8.0n	15m	900m	0	75	2	G0471	TO84
74	6G43D	4M	20M	MON	3.3	.26	TTL	4	6†	0	5	10n	5.0n	8.0n	15m	900m	0	75	2	G0471	TO116
75	6G43G	4M	20M	MON	3.3	.26	TTL	4	6†	0	5	10n	5.0n	8.0n	15m	900m	0	75	2	G0471	TO84
76	6G60G	4M	20M	MON	3.3	.26	TTL	8	15†	0	5	12n	5.0n	8.0n	15m	900m	-55	125	1	G04212g	TO84
77	6G60K	4M	20M	MON	3.3	.26	TTL	8	15†	0	5	12n	5.0n	8.0n	15m	900m	-55	125	1	G04212g	TO116
78	6G61G	4M	20M	MON	3.3	.26	TTL	8	7†	0	5	12n	5.0n	8.0n	15m	900m	-55	125	1	G04212g	TO84
79	6G61K	4M	20M	MON	3.3	.26	TTL	8	7†	0	5	12n	5.0n	8.0n	15m	900m	-55	125	1	G04212g	TO116
80	6G62D	4M	20M	MON	3.3	.26	TTL	8	12†	0	5	12n	5.0n	8.0n	15m	900m	0	75	1	G04212g	TO116
81	6G62G	4M	20M	MON	3.3	.26	TTL	8	12†	0	5	12n	5.0n	8.0n	15m	900m	0	75	1	G04212g	TO84
82	6G63D	4M	20M	MON	3.3	.26	TTL	8	6†	0	5	12n	5.0n	8.0n	15m	900m	0	75	1	G04212g	TO116
83	6G63G	4M	20M	MON	3.3	.26	TTL	8	6†	0	5	12n	5.0n	8.0n	15m	900m	0	75	1	G04212g	TO84
84	6G120G	4M	20M	MON	3.3	.26	TTL	9Δ	15†	0	5	18n	5.0n	8.0n	15m	900m	-55	125	1	G04212h	TO84
85	6G120K	4M	20M	MON	3.3	.26	TTL	9Δ	15†	0	5	18n	5.0n	8.0n	15m	900m	-55	125	1	G04212h	TO116
86	6G121G	4M	20M	MON	3.3	.26	TTL	9Δ	7†	0	5	18n	5.0n	8.0n	15m	900m	-55	125	1	G04212h	TO84
87	6G121K	4M	20M	MON	3.3	.26	TTL	9Δ	7†	0	5	18n	5.0n	8.0n	15m	900m	-55	125	1	G04212h	TO116
88	6G122D	4M	20M	MON	3.3	.26	TTL	9Δ	12†	0	5	18n	5.0n	8.0n	15m	900m	0	75	1	G04212h	TO116
89	6G122G	4M	20M	MON	3.3	.26	TTL	9Δ	12†	0	5	18n	5.0n	8.0n	15m	900m	0	75	1	G04212h	TO84
90	6G123D	4M	20M	MON	3.3	.26	TTL	9Δ	6†	0	5	18n	5.0n	8.0n	15m	900m	0	75	1	G04212h	TO116
91	6G123G	4M	20M	MON	3.3	.26	TTL	9Δ	6†	0	5	18n	5.0n	8.0n	15m	900m	0	75	1	G04212h	TO84
92	6G130G	4M	20M	MON	3.3	.26	TTL	4	30†	0	5	25n	30n	30n	30m	900m	-55	125	2	G04191	TO84
93	6G130K	4M	20M	MON	3.3	.26	TTL	4	30†	0	5	25n	30n	30n	30m	900m	-55	125	2	G04191	TO116
94	6G131G	4M	20M	MON	3.3	.26	TTL	4	15†	0	5	25n	30n	30n	30m	900m	-55	125	2	G04191	TO84
95	6G131K	4M	20M	MON	3.3	.26	TTL	4	15†	0	5	25n	30n	30n	30m	900m	-55	125	2	G04191	TO116
96	6G132D	4M	20M	MON	3.3	.26	TTL	4	24†	0	5	25n	30n	30n	30m	900m	0	75	2	G04191	TO116
97	6G132G	4M	20M	MON	3.3	.26	TTL	4	24†	0	5	25n	30n	30n	30m	900m	0	75	2	G04191	TO84
98	6G133D	4M	20M	MON	3.3	.26	TTL	4	12†	0	5	25n	30n	30n	30m	900m	0	75	2	G04191	TO116
99	6G133G	4M	20M	MON	3.3	.26	TTL	4	12†	0	5	25n	30n	30n	30m	900m	0	75	2	G04191	TO84
100	6G140G	4M	20M	MON	3.3	.26	TTL	2	15†	0	5	10n	5.0n	8.0n	15m	900m	-55	125	4	G04212f	TO84
101	6G140K	4M	20M	MON	3.3	.26	TTL	2	15†	0	5	10n	5.0n	8.0n	15m	900m	-55	125	4	G04212f	TO116
102	6G141G	4M	20M	MON	3.3	.26	TTL	2	7†	0	5	10n	5.0n	8.0n	15m	900m	-55	125	4	G04212f	TO84
103	6G141K	4M	20M	MON	3.3	.26	TTL	2	7†	0	5	10n	5.0n	8.0n	15m	900m	-55	125	4	G04212f	TO116
104	6G142D	4M	20M	MON	3.3	.26	TTL	2	12†	0	5	10n	5.0n	8.0n	15m	900m	0	75	4	G04212f	TO116
105	6G142G	4M	20M	MON	3.3	.26	TTL	2	12†	0	5	10n	5.0n	8.0n	15m	900m	0	75	4	G04212f	TO84
106	6G143D	4M	20M	MON	3.3	.26	TTL	2	6†	0	5	10n	5.0n	8.0n	15m	900m	0	75	4	G04212f	TO116
107	6G143G	4M	20M	MON	3.3	.26	TTL	2	6†	0	5	10n	5.0n	8.0n	15m	900m	0	75	4	G04212f	TO84
108	6G190G	4M	20M	MON	3.3	.26	TTL	3	15†	0	5	10n	5.0n	8.0n	45m	900m	-55	125	3	G04212e	TO84
109	6G190K	4M	20M	MON	3.3	.26	TTL	3	15†	0	5	10n	5.0n	8.0n	45m	900m	-55	125	3	G04212e	TO116
110	6G191G	4M	20M	MON	3.3	.26	TTL	3	7†	0	5	10n	5.0n	8.0n	45m	900m	-55	125	3	G04212e	TO84

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPER-ATING FREQ. (Hz)	3 PRO-CESS	LOGIC			FAN		POWER SUPPLY SPAN		PROPA-GATION DELAY (s)	MAX.		MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP.		CKT PER MOD	DRAWINGS	
					LEVEL 4 '1' (V)	LEVEL 5 '0' (V)	TYPE	IN	OUT	NEG. (V)	POS. (V)		RISE TIME tr (s)	FALL TIME tf (s)			LOW °C	HI °C		LOGIC DWG. No	OUTLINE DWG. No Δ=MO
1	6G191K	4M	20M	MON	3.3	.26	TTL	3	7†	0	5	10n	5.0n	8.0n	45m	900m	-55	125	3	G04212e	TO116
2	6G192D	4M	20M	MON	3.3	.26	TTL	3	12†	0	5	10n	5.0n	8.0n	45m	900m	0	75	3	G04212e	TO116
3	6G192G	4M	20M	MON	3.3	.26	TTL	3	12†	0	5	10n	5.0n	8.0n	45m	900m	0	75	3	G04212e	TO84
4	6G193D	4M	20M	MON	3.3	.26	TTL	3	6†	0	5	10n	5.0n	8.0n	45m	900m	0	75	3	G04212e	TO116
5	6G193G	4M	20M	MON	3.3	.26	TTL	3	6†	0	5	10n	5.0n	8.0n	45m	900m	0	75	3	G04212e	TO84
6#	MMG40#1	4M	20M	MON	3.3	.26	TTL	4	15	0.0	5.0	10n	5.0n	8.0n	15m	900m	-55	125	2	G0471	FP18
7#	MMG40#2	4M	20M	MON	3.3	.26	TTL	4	15	0.0	5.0	10n	5.0n	8.0n	15m	900m	-55	125	2	G0471	M75
8#	MMG41#1	4M	20M	MON	3.3	.26	TTL	4	7	0.0	5.0	10n	5.0n	8.0n	15m	900m	-55	125	2	G0471	FP18
9#	MMG41#2	4M	20M	MON	3.3	.26	TTL	4	7	0.0	5.0	10n	5.0n	8.0n	15m	900m	-55	125	2	G0471	M75
10#	MMG60#1	4M	20M	MON	3.3	.26	TTL	8	15	0.0	5.0	12n	5.0n	8.0n	15m	900m	-55	125	1	G04212c	FP18
11#	MMG60#2	4M	20M	MON	3.3	.26	TTL	8	15	0.0	5.0	12n	5.0n	8.0n	15m	900m	-55	125	1	G04212c	M75
12#	MMG61#1	4M	20M	MON	3.3	.26	TTL	8	7	0.0	5.0	12n	5.0n	8.0n	15m	900m	-55	125	1	G04212c	FP18
13#	MMG61#2	4M	20M	MON	3.3	.26	TTL	8	7	0.0	5.0	12n	5.0n	8.0n	15m	900m	-55	125	1	G04212c	M75
14#	MMG120#1	4M	20M	MON	3.3	.26	TTL	4	30	0.0	5.0	18n	5.0n	8.0n	15m	900m	-55	125	1	G04212a	FP18
15#	MMG120#2	4M	20M	MON	3.3	.26	TTL	4	30	0.0	5.0	18n	5.0n	8.0n	15m	900m	-55	125	1	G04212a	M75
16#	MMG121#1	4M	20M	MON	3.3	.26	TTL	9	7	0.0	5.0	18n	5.0n	8.0n	15m	900m	-55	125	1	G04212a	FP18
17#	MMG121#2	4M	20M	MON	3.3	.26	TTL	9	7	0.0	5.0	18n	5.0n	8.0n	15m	900m	-55	125	1	G04212a	M75
18#	MMG130#1	4M	20M	MON	3.3	.26	TTL	4	30	0.0	5.0	25n	30n	30n	30m	900m	-55	125	2	G04191	FP18
19#	MMG130#2	4M	20M	MON	3.3	.26	TTL	4	30	0.0	5.0	25n	30n	30n	30m	900m	-55	125	2	G04191	M75
20#	MMG131#1	4M	20M	MON	3.3	.26	TTL	4	15	0.0	5.0	25n	30n	30n	30m	900m	-55	125	2	G04191	FP18
21#	MMG131#2	4M	20M	MON	3.3	.26	TTL	4	15	0.0	5.0	25n	30n	30n	30m	900m	-55	125	2	G04191	M75
22	SG40	4M	20M	MON	3.3	.26	TTL	4	15†	0	5	10n	5.0n	8.0n	15m	900m	-55	125	2	G0471	ZB100
23	SG41	4M	20M	MON	3.3	.26	TTL	4	7†	0	5	10n	5.0n	8.0n	15m	900m	-55	125	2	G0471	ZB100
24	SG42	4M	20M	MON	3.3	.26	TTL	4	12†	0	5	10n	5.0n	8.0n	15m	900m	0	75	2	G0471	ZB100
25	SG43	4M	20M	MON	3.3	.26	TTL	4	6†	0	5	10n	5.0n	8.0n	15m	900m	0	75	2	G0471	ZB100
26	SG60	4M	20M	MON	3.3	.26	TTL	8	15†	0	5	12n	5.0n	8.0n	15m	900m	-55	125	1	G04212g	ZB100
27	SG61	4M	20M	MON	3.3	.26	TTL	8	7†	0	5	12n	5.0n	8.0n	15m	900m	-55	125	1	G04212g	ZB100
28	SG62	4M	20M	MON	3.3	.26	TTL	8	12†	0	5	12n	5.0n	8.0n	15m	900m	0	75	1	G04212g	ZB100
29	SG63	4M	20M	MON	3.3	.26	TTL	8	6†	0	5	12n	5.0n	8.0n	15m	900m	0	75	1	G04212g	ZB100
30	SG120	4M	20M	MON	3.3	.26	TTL	9Δ	15†	0	5	18n	5.0n	8.0n	15m	900m	-55	125	1	G04212h	ZB100
31	SG121	4M	20M	MON	3.3	.26	TTL	9Δ	7†	0	5	18n	5.0n	8.0n	15m	900m	-55	125	1	G04212h	ZB100
32	SG122	4M	20M	MON	3.3	.26	TTL	9Δ	12†	0	5	18n	5.0n	8.0n	15m	900m	0	75	1	G04212h	ZB100
33	SG123	4M	20M	MON	3.3	.26	TTL	9Δ	6†	0	5	18n	5.0n	8.0n	15m	900m	0	75	1	G04212h	ZB100
34	SG130	4M	20M	MON	3.3	.26	TTL	4	30†	0	5	25n	30n	30n	30m	900m	-55	125	2	G04191	ZB100
35	SG131	4M	20M	MON	3.3	.26	TTL	4	15†	0	5	25n	30n	30n	30m	900m	-55	125	2	G04191	ZB100
36	SG132	4M	20M	MON	3.3	.26	TTL	4	24†	0	5	25n	30n	30n	30m	900m	0	75	2	G04191	ZB100
37	SG133	4M	20M	MON	3.3	.26	TTL	4	12†	0	5	25n	30n	30n	30m	900m	0	75	2	G04191	ZB100
38	SG140	4M	20M	MON	3.3	.26	TTL	2	15†	0	5	10n	5.0n	8.0n	15m	900m	-55	125	4	G04212f	ZB100
39	SG141	4M	20M	MON	3.3	.26	TTL	2	7†	0	5	10n	5.0n	8.0n	15m	900m	-55	125	4	G04212f	ZB100
40	SG142	4M	20M	MON	3.3	.26	TTL	2	12†	0	5	10n	5.0n	8.0n	15m	900m	0	75	4	G04212f	ZB100
41	SG143	4M	20M	MON	3.3	.26	TTL	2	6†	0	5	10n	5.0n	8.0n	15m	900m	0	75	4	G04212f	ZB100
42	SG190	4M	20M	MON	3.3	.26	TTL	3	15†	0	5	10n	5.0n	8.0n	45m	900m	-55	125	3	G04212e	ZB100
43	SG191	4M	20M	MON	3.3	.26	TTL	3	7†	0	5	10n	5.0n	8.0n	45m	900m	-55	125	3	G04212e	ZB100
44	SG192	4M	20M	MON	3.3	.26	TTL	3	12†	0	5	10n	5.0n	8.0n	45m	900m	0	75	3	G04212e	ZB100
45	SG193	4M	20M	MON	3.3	.26	TTL	3	6†	0	5	10n	5.0n	8.0n	45m	900m	0	75	3	G04212e	ZB100
46	TG431	4M	20M	MON	3.5	.25	TTL	4	15†	0	6	12n	5.0n	8.0n	40m	1.0 Δ	-55	125	2	G0471a	ZB159
47	TG432	4M	20M	MON	3.5	.25	TTL	4	15†	0	6	12n	5.0n	8.0n	40m	1.0 Δ	0	75	2	G0471a	ZB159
48	TG433	4M	20M	MON	3.5	.25	TTL	4	7†	0	6	12n	5.0n	8.0n	40m	1.0 Δ	-55	125	2	G0471a	ZB159
49	TG434	4M	20M	MON	3.5	.25	TTL	4	7†	0	6	12n	5.0n	8.0n	40m	1.0 Δ	0	75	2	G0471a	ZB159
50	SWG40	4M	20M%	MON	3.5	.26	TTL	4	15	0.0	6.0	12n	5.0n	8.0n	15mΔ	1.0	-55	125	2	G04210	CN3a
51	SWG41	4M	20M%	MON	3.5	.26	TTL	4	7	0.0	6.0	12n	5.0n	8.0n	15mΔ	1.0	-55	125	2	G04210	CN3a
52	SWG42	4M	20M%	MON	3.5	.26	TTL	4	12	0.0	6.0	12n	5.0n	8.0n	15mΔ	1.0	0	75	2	G04210	CN3a
53	SWG43	4M	20M%	MON	3.5	.26	TTL	4	6	0.0	6.0	12n	5.0n	8.0n	15mΔ	1.0	0	75	2	G04210	CN3a
54	SWG60	4M	20M%	MON	3.5	.26	TTL	8	15	0.0	6.0	15n	5.0n	8.0n	15m	1.0	-55	125	1	G04211	CN3a
55	SWG61	4M	20M%	MON	3.5	.26	TTL	8	7	0.0	6.0	15n	5.0n	8.0n	15m	1.0	-55	125	1	G04211	CN3a
56	SWG62	4M	20M%	MON	3.5	.26	TTL	8	12	0.0	6.0	15n	5.0n	8.0n	15m	1.0	0	75	1	G04211	CN3a
57	SWG63	4M	20M%	MON	3.5	.26	TTL	8	6	0.0	6.0	15n	5.0n	8.0n	15m	1.0	0	75	1	G04211	CN3a
58	SWG120	4M	20M%	MON	3.5	.26	TTL	9Δ	15	0.0	6.0	15n	5.0n	8.0n	15m	1.0	-55	125	1	G04212	CN3a
59	SWG121	4M	20M%	MON	3.5	.26	TTL	9Δ	7	0.0	6.0	15n	5.0n	8.0n	15m	1.0	-55	125	1	G04212	CN3a
60	SWG122	4M	20M%	MON	3.5	.26	TTL	9Δ	12	0.0	6.0	15n	5.0n	8.0n	15m	1.0	0	75	1	G04212	CN3a
61	SWG123	4M	20M%	MON	3.5	.26	TTL	9Δ	6	0.0	6.0	15n	5.0n	8.0n	15m	1.0	0	75	1	G04212	CN3a
62	SWG140	4M	20M%	MON	3.5	.26	TTL	2	15	0.0	6.0	12n	5.0n	8.0n	15mΔ	1.0	-55	125	4	G04213a	CN3a
63	SWG141	4M	20M%	MON	3.5	.26	TTL	2	7	0.0	6.0	12n	5.0n	8.0n	15mΔ	1.0	-55	125	4	G04213a	CN3a
64	SWG142	4M	20M%	MON	3.5	.26	TTL	2	12	0.0	6.0	12n	5.0n	8.0n	15mΔ	1.0	0	75	4	G04213a	CN3a
65	SWG143	4M	20M%	MON	3.5	.26	TTL	2	6	0.0	6.0	12n	5.0n	8.0n	15mΔ	1.0	0	75	4	G04213a	CN3a
66#	MMG220#1	4M	40M	MON	1.7%	1.2*	TTL	2	11	0.0	5.0	6.0n			22m	1.0	-55	125	4	G04240b	FP18
67#	MMG220#2	4M	40M	MON	1.7%	1.2*	TTL	2	11	0.0	5.0	6.0n			22m	1.0	-55	125	4	G04240b	M75
68#	MMG221#1	4M	40M	MON	1.7%	1.2*	TTL	2	6	0.0	5.0	6.0n			22m	1.0	-55	125	4	G04240b	FP18
69#	MMG221#2	4M	40M	MON	1.7%	1.2*	TTL	2	6	0.0	5.0	6.0n			22m	1.0	-55	125	4	G04240b	M75
70#	MMG222#1	4M	40M	MON	1.7%	1.2*	TTL	2	9	0.0	5.0	6.0n			22m	1.0	-55	125	4	G04240b	FP18
71#	MMG222#2	4M	40M	MON	1.7%	1.2*	TTL	2	9	0.0	5.0	6.0n			22m	1.0	-55	125	4	G04240b	M75
72#	MMG223#1	4M	40M	MON	1.7%	1.2*	TTL	2	5	0.0	5.0	6.0n			22m	1.0	-55	125	4	G04240b	FP18
73#	MMG223#2	4M	40M	MON	1.7%	1.2*	TTL	2	5	0.0	5.0	6.0n			22m	1.0	-55	125	4	G04240b	M75
74#	MMG240#1	4M	40M	MON	1.7%	1.2*	TTL	4	11	0.0	5.0	6.0n			22m	1.0	-55	125	2	G04240	FP18
75#	MMG240#2	4M	40M	MON	1.7%	1.2*	TTL	4	11	0.0	5.0	6.0n			22m	1.0	-55	125	2	G04240	M75
76#	MMG241#1	4M	40M	MON	1.7%	1.2*	TTL	4	6	0.0	5.0	6.0n			22m	1.0	-55	125	2	G04240	FP18
77#	MMG241#2	4M	40M	MON	1.7%	1.2*	TTL	4	6	0.0	5.0	6.0n			22m	1.0	-55	125	2	G04240	M75
78#	MMG242#1	4M	40M	MON	1.7%	1.2*	TTL	4	9	0.0	5.0	6.0n			22m	1.0	0	75	2	G04240	FP18
79#	MMG242#2	4M	40M	MON	1.7%	1.2*	TTL	4	9	0.0	5.0	6.0n			22m	1.0	0	75	2	G04240	M75
80#	MMG243#1	4M	40M	MON	1.7%	1.2*	TTL	4	5	0.0	5.0	6.0n			22m	1.0	0	75	2	G04240	FP18
81#	MMG243#2	4M	40M	MON	1.7%	1.2*	TTL	4	5	0.0	5.0	6.0n			22m	1.0	0	75	2	G04240	M75
82#	MMG260#1	4M	40M	MON	1.7%	1.2*	TTL	8	11	0.0	5.0	8.0n			22m	1.0	-55	125	1	G04240	FP18
83#	MMG260#2	4M	40M	MON	1.7%	1.2*	TTL	8	11	0.0	5.0	8.0n			22m	1.0	-55	125	1	G04240	M75
84#	MMG261#1	4M	40M	MON	1.7%	1.2*	TTL	8	6	0.0	5.0	8.0n			22m	1.0	-55	125	1	G04240	FP18
85#	MMG261#2	4M	40M	MON	1.7%	1.2*	TTL	8	6	0.0	5.0	8.0n			22m	1.0	-55	125	1	G04240	M75
86#	MMG262#1	4M	40M	MON	1.7%	1.2*	TTL	8	9	0.0	5.0	8.0n			22m	1.0	0	75	1	G04240	FP18
87#	MMG262#2	4M	40M	MON	1.7%	1.2*	TTL	8	9	0.0	5.0	8.0n			22m	1.0	0	75	1	G04240	M75
88#	MMG263#1	4M	40M	MON	1.7%	1.2*	TTL	8	5	0.0	5.0	8.0n			22m	1.0	0	75	1	G04240	FP18
89#	MMG263#2	4M	40M	MON	1.7%	1.2*	TTL	8	5	0.0	5.0	8.0n			22m	1.0	0	75	1	G04240	M75
90	UC1003B	4M,G		TFH	6.0	0.0	DTL	4Δ	15	8	15	14n	45n†	11n†	55m		-55	125	1	G0447a	M55
91	SN1502	4ME	10M	MON	2.5	.40†	DTL	5Δ	25	0.0	5.5	25n			10m	750m	-55	125	2	G04218	TO84
92	RM6180G	4MG		MON	1.0*	2.0%	DTL	2	16	0.0	10				44m	550m	-55	125	2	G0428p	TO84
93	MC66☐	4MS	1.0M	PCB	-6.2	0.0	DTL	4	22	18	18	20n	100n	100n	3.1	2.5 *	0	55	6		CB25
94	PL9986	4S		MON	.85%	.42†	TTL	3	15	0	3	85nΔ			2.3m†		-55	125	2	G04348	TO86
95	8204,A-G	4S		TFH	3.5	.50	DTL	9†	7	3	6	10n	20n	10n	120m		-55	100	1	G04204	M7
96	462A	4S	300k	PCB	-6.8	0.0	DTL	2	1	12	12				460m		0	55	8		CB24
97	MS63	4S	1.0M	PCB	6.2	0.0	DTL	3	1	18	18	20n	100n	100n	1.8	2.5 *	-30	100	1		CB25
98	MS66	4S	1.0M	PCB	6.2	0.0	DTL	4	2	18	18	20n	100n	100n	3.1	2.5 *	-30	100	6		CB25
99	MIC370-1A	5					RTL	2	10	0.0	4.0	90n			20m	200m	-55	125	2		TO89
100	MIC370-1B	5					RTL	2	10	0.0	4.0	90n			20m	200m	-55	125	2		TO86
101	MIC370-1C	5					RTL	2	10	0.0	4.0	90n			20m	200m	-55	125	2		CN17
102	MIC370-2A	5					RTL	2	10	0.0	4.0	90n			20m	200m	0	100	2		TO89
103	MIC370-2B	5					RTL	2	10	0.0	4.0	90n			20m	200m	0	100	2		TO86
104	MIC370-2C	5					RTL	2	10	0.0	4.0	90n			20m	200m	0	100	2		CN17
105	MIC370-3A	5					RTL	2	10	0.0	4.0	90n			20m	200m	15	55	2		TO89
106	MIC370-3B	5					RTL	2	10	0.0	4.0	90n			20m	200m	15	55	2		TO86
107	MIC370-3C	5					RTL	2	10	0.0	4.0	90n			20m	200m	15	55	2		CN17
108	MC814	5		MON			RTL	2	5		3.0	12n			38mΔ		0	100	2	G0572a	CN46
109	1134H	5		MON	.83	.75	RTL	4		0.0	5.0	100n				350m	-55	125	1	G0548	CN40
110	2134H	5		MON	.83	.75	RTL	4		0.0	5.0	100n				350m	-55	125	1	G0548	FP20

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1#	SP245B	5		MON	.84	.22	RTL	4	4	0.0	8.0	60n			6.0m†	320m	0	70	1	G0594a	CN6a
2#	SP295B	5		MON	.84	.22	RTL	4	4	0	8	60n			6m	320m	0	70	1	G0594	FP2
3	PL9975	5		MON	.90	.15	RTL	4	5	0.0	4.0	32n			10m		-55	125	1	G0571	FP2
4#	SFC212	5		MON	.92%	.35*	TTL	4	4	0	12	75n			12m†		0	70	1		TO99
5	US0105A	5		MON	2.0%	.30†*	RCT	4	5	0.0	8.0	250n	110n	1.2u	11m		-55	125	1	G0549	TO89
6	US0105B	5		MON	2.0%	.30†*	RCT	4	5	0.0	8.0	250n	110n	1.2u	11m		-55	125	1	G0549	FP23
7	US0109A	5		MON	2.0%	.30†*	RCT	4	5	0.0	8.0		70n	225n	25m		-55	125	1	G0586	TO89
8	US0109B	5		MON	2.0%	.30†*	RCT	4	5	0.0	8.0		70n	225n	25m		-55	125	1	G0582	FP23
9	USR0105A	5		MON	2.0%	.30*†	RCT	4	5	0.0	8.0	250n	110n	1.2u	11m		-55	125	1	G0549	FP22
10	USR0105B	5		MON	2.0%	.30*†	RCT	4	5	0.0	8.0	250n	110n	1.2u	11m		-55	125	1	G0549	FP23
11	USR0109A	5		MON	2.0%	.30*†	RCT	4	5	0.0	8.0		70n	225n	25m		-55	125	1	G0582	FP22
12	USR0109B	5		MON	2.0%	.30*†	RCT	4	5	0.0	8.0		70n	225n	25m		-55	125	1	G0582	FP23
13	SE440J	5		MON	2.0%	.70*	TTL	4	3†	0	6	50n	10n	10n	20m	1.0 Δ	-55	125	2	G0592	TO88
14	PD7486	5		MON	2.0%	.80*	TTL	2	10	0.0	7.0	12n%⍁			39mΔ	1.0	0	75	4	G0572b	TO116
15	NE840J	5		MON	3.1	.20†	TTL	6†	10		5.5	13n			38m	1.0 Δ	0	70	2	G0587	TO88
16	SE840J	5		MON	3.1	.20†	TTL	6†	10	0.0	6.0	13n			38m	1.0 Δ	-55	125	2	G0581	TO88
17#	MMG92	5		MON	3.1%	.40†*	TTL	8	12	0.0	5.0	11n	6.0n	8.0n	35m†	900m	0	75	1	G0545	M75
18#	MMG93	5		MON	3.1%	.40†*	TTL	8	6	0.0	5.0	11n	6.0n	8.0n	35m†	900m	0	75	1	G0545	M75
19	NE440A	5		MON	3.2%	.35†*	TTL	4	7†	0	6	50n	10n	10n	20m	1.0 Δ	0	80	2	G0592	M105b
20	NE440J	5		MON	3.2%	.35†*	TTL	4	7†	0	6	50n	10n	10n	20m	1.0 Δ	0	70	2	G0592	TO88
21#	47B4	5		MON	4.0%	.60*†	DTL	4	5	8	8	35n			15m		-55	125	1	G0547	TO100
22#	47B4P	5		MON	4.0%	.60*†	DTL	4	5	8	8	35n			15m		-55	125	1	G0547	TO91
23	SD341BG	5		MON	6.5%	5.0*	DTL	6Δ		0.0	12	160n					-55	125	2	G0590	CN50
24	SD341BJ	5		MON	6.5%	5.0*	DTL	6Δ		0.0	12	160n					-55	125	2	G0590	M172
25	SD341CG	5		MON	6.5%	5.0*	DTL	6Δ		0.0	12	160n					-30	100	2	G0590	CN50
26	SD341CJ	5		MON	6.5%	5.0*	DTL	6Δ		0.0	12	160n					-30	100	2	G0590	M172
27	341BG	5		MON	11.3	1.2†	DDL	6Δ	5	0.0	12	250nΔ			144m	5.0 Δ	-55	125	2	G0590	CN69
28	341BJ	5		MON	11.3	1.2†	DDL	6Δ	5	0.0	12	250nΔ			144m	5.0 Δ	-55	125	2	G0590	M172
29	341BN	5		MON	11.3	1.2†	DDL	6Δ	5	0.0	12	250nΔ			144m	5.0 Δ	-55	125	2	G0590	M204
30	341CG	5		MON	11.3	1.2†	DDL	6Δ	5	0.0	12	220nΔ			144m	5.0 Δ	-30	85	2	G0590	CN69
31	341CN	5		MON	11.3	1.2†	DDL	6Δ	5	0.0	12	220nΔ			144m	5.0 Δ	-30	85	2	G0590	M204
32	MC14507L	5		MOS	9.9%	.01*†		2	50	0.0	10	50n	200n	200n	1.0u%		-55	125	4	G05110	M157a
33	NE840A	5	30	MON	3.1	.20†	TTL	5†	10	0.0	5.5	20nΔ			38m	2.0	0	70	2	G0581a	TO116
34	T639	5	100k		-3.0	0.0		6	5	3.0	3.0						-45	65			
35	EG1713B	5	200k	TFH	5.0	2.0	RTL	2	6	0.0	15	120n	200n	70n	10m	3.5	-55	125	1	G0578	ZB54
36	EG1723B	5	200k	TFH	5.0	2.0	RTL	2	6	0.0	15	120n	200n	70n	10m	3.5	-55	125	1	G0578	ZB54
37	CT421A4	5	250k	PCB	-3.0	-11	DTL	2		12	12	200n	1.0u		576m		-54	71	4	G0581	CB16
38	CT422-4	5	250k	PCB	-3.0	-11	DTL	3		12	12	200n	1.0u		800m		-54	71		G0582	CB16
39	CT423A3	5	250k	PCB	-3.0	-11	DTL	2		12	12	200n	1.0u		864m		-54	71	6	G0583	CB16
40	T421A	5	250k	3DM	-3.0	-11	DTL	2		12	12	200n	1.0u		144m		-54	71	1	G0578	M17
41	T422	5	250k	3DM	-3.0	-11	DTL	3		12	12	200n	1.0u		200m		-54	71	1	G0579	M17
42	T423A	5	250k	3DM	-3.0	-11	DTL	2		12	12	200n	1.0u		288m		-54	71	1	G0580	M17
43	PD503	5	1.0M	MON	0.0	-.50	ECT	4		3.3	.26	3.5	2	3.3	96 Δ		0	75	2	G05105	M54c
44	CT805-2	5	1.0M	PCB	-3.0	-11	DTL	2		12	12	500n	500n		670m		-45	65	4	G0584	CB16
45	EG1514B	5	1.0M	TFH	5.0	2.0	RTL	2	6	0	12	60n	50n	25n	80m	3.0	-55	125	1	G0578	ZB54
46	EG1524B	5	1.0M	TFH	5.0	2.0	RTL	2	6	0	12	60n	50n	25n	80m	3.0	-55	125	1	G0578	ZB54
47	DN35⍁	5	2.0M	PCB	3.0	0.0	DTL	3	30	0.0	4.0	20n	30n	90n	205m	300m	0	70	9		CB10
48	EG1415B	5	2.0M	TFH	5.0	2.0	RTL	2	6	0	9	40n	40n	20n	160m	2.5	-55	125	1	G0578	ZB54
49	EG1425B	5	2.0M	TFH	5.0	2.0	RTL	2	6	0	9	40n	40n	20n	160m	2.5	-55	125	1	G0578	ZB54
50	EM2622	5	2.0M	3DM	0.0	-6.0	DTL	2	5	12	6	100n	30n	35n	168m	500m	-55	71	2	G0570	M62a
51	T640	5	5.0M		-3.0	0.0		10	1	3	3						-45	65			
52	EO335	5	5.0M	MOH	6.3*	1.1*	DTL	4	15	0	6.3				1.1	1.3	0	55	5	G0568	CB13
53	706	5	5.0MΔ	PCB	2.0%	.45*	DTL	4†	6	0.0	5.0				480m	1.4	0	70	8	G0582	CB50
54	IEO0227	5	5.0M	PCB	2.0%	1.1*	DTL	2	1	0	5	90nΔ			340m	500m	0	75	10	G0584a	CB51
55	IEO2227	5	5.0M	PCB	2.0%	1.1*	DTL	2	1	0	5	90nΔ			340m	500m	0	75	10	G0584a	CB51
56	PC806	5	5.0M	PCB	2.2%	.70*	DTL	2	50	0	5	50n			1.3	400m	0	75	8		CB⍁
57	SN1581	5	10M	MON	2.5	.40	DTL	4	8	0.0	5.5	25n			10m	750m	0	70	2		TO84
58	SN1581P	5	10M	MON	2.5	.40	DTL	4	8	0.0	5.5	25n			10m	750m	0	70	2		M63
59	SN1582	5	10M	MON	2.5	.40	DTL	4	25	0.0	5.5	25n			10m	750m	0	70	2		TO84
60	SN1582P	5	10M	MON	2.5	.40	DTL	4	25	0.0	5.5	25n			10m	750m	0	70	2		M63
61	SN1583	5	10M	MON	2.5	.40	DTL	2	8	0.0	5.5	25n			20m	750m	0	70	4		TO84
62	SN1583P	5	10M	MON	2.5	.40	DTL	2	8	0.0	5.5	25n			20m	750m	0	70	4		M63
63	SN1584	5	10M	MON	2.5	.40	DTL	4	27	0.0	5.5	15n			10m	750m	0	70	2		TO84
64	SN1584P	5	10M	MON	2.5	.40	DTL	4	27	0.0	5.5	15n			10m	750m	0	70	2		M63
65	SN1585	5	10M	MON	2.5	.40	DTL	3	8	0.0	5.5	25n			15m	750m	0	70	3		TO84
66	SN1585P	5	10M	MON	2.5	.40	DTL	3	8	0.0	5.5	25n			15m	750m	0	70	3		M63
67	NB1003	5	20M	MON	.82	.57	RTL	3	5†	2.7	3.3	13n	20n	30n	27m	540m	-55	125	1	G0563	CN29
68	NB1007	5	20M	MON	.82	.57	RTL	4	5†	2.7	3.3	13n	20n	30n	27m	540m	-55	125	1	G0564	CN29
69	NB1014	5	20M	MON	.82	.57	RTL	4	5†	2.7	3.3	13n	20n	30n	54m	540m	-55	125	3	G0565	CN29
70	NB1015	5	20M	MON	.82	.57	RTL	6	5†	2.7	3.3	13n	20n	28n	54m	540m	-55	125	3	G0566	CN29
71	NB1017	5	20M	MON	.82	.57	RTL	6	5†	2.7	3.3	13n	20n	30n	27m	540m	-55	125	3	G0567	CN29
72	NB2003	5	20M	MON	.82	.57	RTL	3	5†	2.7	3.3	13n	20n	30n	27m	540m	0	100	1	G0563	CN29
73	NB2007	5	20M	MON	.82	.57	RTL	4	5†	2.7	3.3	13n	20n	30n	27m	540m	0	100	1	G0564	CN29
74	NB2014	5	20M	MON	.82	.57	RTL	4	5†	2.7	3.3	13n	20n	30n	54m	540m	0	100	1	G0565	CN29
75	NB2015	5	20M	MON	.82	.57	RTL	6	5†	2.7	3.3	13n	20n	28n	54m	540m	0	100	1	G0566	CN29
76	NB2017	5	20M	MON	.82	.57	RTL	6	5†	2.7	3.3	13n	20n	30n	27m	540m	0	100	1	G0567	CN29
77	NB3003	5	20M	MON	.82	.57	RTL	3	5†	2.7	3.3	13n	20n	30n	27m	540m	15	55	1	G0563	CN29
78	NB3007	5	20M	MON	.82	.57	RTL	4	5†	2.7	3.3	13n	20n	30n	27m	540m	15	55	1		
79	NB3014	5	20M	MON	.82	.57	RTL	4	5†	2.7	3.3	13n	20n	30n	54m	540m	15	55	1	G0565	CN29
80	NB3015	5	20M	MON	.82	.57	RTL	6	5†	2.7	3.3	13n	20n	28n	54m	540m	15	55	1	G0566	CN29
81	NB3017	5	20M	MON	.82	.57	RTL	6	5†	2.7	3.3	13n	20n	30n	27m	540m	15	55	1		
82	6G90G	5	20M	MON	3.3	.26	TTL	8	15†	0	5	11n	5.0n	8.0n	35m	900m	-55	125	1	G0545	TO84
83	6G90K	5	20M	MON	3.3	.26	TTL	8	15†	0	5	11n	5.0n	8.0n	35m	900m	-55	125	1	G0545	TO116
84	6G91G	5	20M	MON	3.3	.26	TTL	8	7†	0	5	11n	5.0n	8.0n	35m	900m	-55	125	1	G0545	TO84
85	6G91K	5	20M	MON	3.3	.26	TTL	8	7†	0	5	11n	5.0n	8.0n	35m	900m	-55	125	1	G0545	TO116
86	6G92D	5	20M	MON	3.3	.26	TTL	8	12†	0	5	11n	5.0n	8.0n	35m	900m	0	75	1	G0545	TO116
87	6G92G	5	20M	MON	3.3	.26	TTL	8	12†	0	5	11n	5.0n	8.0n	35m	900m	0	75	1	G0545	TO84
88	6G93D	5	20M	MON	3.3	.26	TTL	8	6†	0	5	11n	5.0n	8.0n	35m	900m	0	75	1	G0545	TO116
89	6G93G	5	20M	MON	3.3	.26	TTL	8	6†	0	5	11n	5.0n	8.0n	35m	900m	0	75	1	G0545	TO84
90#	MMG90#1	5	20M	MON	3.3	.26	TTL	8	15	0.0	5.0	11n	5.0n	8.0n	35m	900m	-55	125	1	G0545	FP18
91#	MMG90#2	5	20M	MON	3.3	.26	TTL	8	15	0.0	5.0	11n	5.0n	8.0n	35m	900m	-55	125	1	G0545	M75
92#	MMG91#1	5	20M	MON	3.3	.26	TTL	8	7	0.0	5.0	11n	5.0n	8.0n	35m	900m	-55	125	1	G0545	FP18
93#	MMG91#2	5	20M	MON	3.3	.26	TTL	8	7	0.0	5.0	11n	5.0n	8.0n	35m	900m	-55	125	1	G0545	M75
94	SG90	5	20M	MON	3.3	.26	TTL	8	15†	0	5	11n	5.0n	8.0n	35m	900m	-55	125	1	G0545	ZB100
95	SG91	5	20M	MON	3.3	.26	TTL	8	7†	0	5	11n	5.0n	8.0n	35m	900m	-55	125	1	G0545	ZB100
96	SG92	5	20M	MON	3.3	.26	TTL	8	12†	0	5	11n	5.0n	8.0n	35m	900m	0	75	1	G0545	ZB100
97	SG93	5	20M	MON	3.3	.26	TTL	8	6†	0	5	11n	5.0n	8.0n	35m	900m	0	75	1	G0545	ZB100
98	PC906	5	20M	PCB	2.0%	.80*	TTL	2	6	0	5	13n			480m†	400m	0	70	8		CB⍁
99	MC1030L	5	80M	MON	-.75	-1.6	ECT	2	25	8	0	5.0n	8.0n	8.5n	130m†	175m	0	75	4	G0598	TO116
100	10107E	5	150M		-.96	-1.8	ECL	2	90	-5.2	0.0	2.5n	3.0n	3.0n	125m	400m	-30	85			M153a
101	GHA1-.2	5B	200k	PCB	-10	0.0	DTL	4†	15	12	6.0	300n	1.0u	500n	1.7	1.5	0	55	7	G0569	CB15
102	GHA1-1	5B	1.0M	PCB	-10	0.0	DTL	4†	12	12	6.0	100n	250n	200n	2.0	1.5	0	55	7	G0569	CB15
103	GHA1-5	5B	5.0M	PCB	-10	0.0	DTL	4†	15	12	6.0	50n	60n	100n	2.1	1.5	0	55	7	G0569	CB15
104	445	5G	300k	PCB	-6.8	0.0	DTL	4	1	12	12		200n	500n	1.1		0	55	5		CB24
105	MEM1008	5G	500k	MOS	-10%	-2.0*	TTL	2		30	.30	100n	400n	400n	120m		-55	85	2	G0591	CN58
106	MC1031L	5G	80M	MON	-.75	-1.6	ECT	2	25	8	0	5.0n	8.0n	8.5n	130m†	175m	0	75	4	G0599	TO116
107	SN5191	5M		MON	.30	2.3	RCT	4	5	0.0	8.0	125n	70n	225n	25m	200m	-55	125	1	G0580	TO89
108	PL975	5M		MON	.90	.15	RTL	4	5	0.0	4.0	32n			10m		-55	125	1	G0571	FP2
109	EOL	5M	50k	PCB	-10	0.0	RTL			12	12				300m		0	50	3	G0543	CB19
110	EO11-1	5M	100k	3DM	-8.0	0.0	DTL	2	4	12	12	100n	200n	500n	120m	2.0	-35	65	1	G0541	M15

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	E021-1	5M	2.0M	3DM	8.0	0.0	DTL	2	4	12	12	10n	50n	30n	120m	2.0	-35	125	1	G0541a	M16
2	2NB1003	5M	10M	MON	.81	.21	RTL	3	5	0.0	3.0	12n	12n	12n	27m	355m	-55	125	1	G0541a	
3	2NB2003	5M	10M	MON	.81	.21	RTL	3	5	0.0	3.0	12n	12n	12n	27m	355m	0	100	1	G0541a	
4	2NB3003	5M	10M	MON	.81	.21	RTL	3	5	0.0	3.6	12n	12n	12n	27m	355m	15	65	1	G0541a	
5	2NB4003	5M	10M	MON	.81	.21	RTL	3	5	0.0	3.0	12n	12n	12n	27m	355m	0	75	1	G0541a	
6	TG449	5M	20M	MON	3.5	.25	TTL	4			6					1.0 Δ	-55	125	2	G0241	ZB159
7	TG450	5M	20M	MON	3.5	.25	TTL	4			6					1.0 Δ	0	75	2	G0241	ZB159
8	SWG90	5S	20M%	MON	3.5	.26	TTL	8Δ	15	0.0	6.0	14n	5.0n	8.0n	30m	1.0	-55	125	1	G0579	CN3a
9	SWG91	5S	20M%	MON	3.5	.26	TTL	8Δ	7	0.0	6.0	14n	5.0n	8.0n	30m	1.0	-55	125	1	G0579	CN3a
10	SWG92	5S	20M%	MON	3.5	.26	TTL	8Δ	12	0.0	6.0	14n	5.0n	8.0n	30m	1.0	0	75	1	G0579	CN3a
11	SWG93	5S	20M%	MON	3.5	.26	TTL	8Δ	6	0.0	6.0	14n	5.0n	8.0n	30m	1.0	0	75	1	G0579	CN3a
12	260MY	6					DTL	6										T 3	1	G0665	ZB46
13	LU300	6						3		0.0	4.5	5.0n					10	55	2		CN17
14	MC69	6					DDL	3									-65	175	2	G0646c	CN20
15	MC71	6					DDL	3									-65	175	1	G0644b	CN20
16	MC72	6					DDL	4									-65	175	1	G0644c	CN20
17	MC73	6					DDL	5									-65	175	1	G0644d	CN20
18	MC74	6					DDL	2									-65	175	2	G0645a	CN20
19	MC75	6					DDL	3									-65	175	2	G0645b	CN20
20	MC76	6					DDL	1									-65	175	2	G0643a	CN20
21	1001-002	6			8.5	0.0	DDL	3†											10		
22	SFC105	6		DTL	6												0	75	1	G0665	CN39
23#	45B4	6		MON			DTL	6		0	8						-55	125	1	G0661k	TO100
24#	45B4P	6		MON			DTL	6		0	8						-55	125	1	G0661k	TO91
25#	70B4	6		MON			DTL	3		0	8						-55	125	2	G0685	TO100
26#	70B4P	6		MON			DTL	3		0	8						-55	125	2	G0685	TO91
27	1254DD	6		MON			DTL	4Δ		8.0	8.0				100m		-55	125	2	G0669	CN41
28	1254G6	6		MON			DTL	4Δ		8.0	8.0				100m		-55	125	2	G0669	CN41
29	2254DD	6		MON			DTL	4Δ		8.0	8.0				100m		-55	125	2	G0669	FP19a
30	2254G6	6		MON			DTL	7Δ		8.0	8.0				100m		-55	125	1	G0670	FP19
31#	9921-1-5B	6		MON			RTL	2	1	0.0	3.0						-55	125	2	G0304	TO99
32	CD2204	6		MON			DTL	4		0	6.3						-55	125	2	G06139	FP44
33	CD2204D	6		MON			DTL	4		0	6.8						-55	125	2	G013v	M135
34	CD2314/933	6		MON			DTL	4		0	8				16m†	1.0 Δ	-55	125	2	G06156	FP44a
35	CD2314D933	6		MON			DTL	4		0	8				16m†	1.0 Δ	-55	125	2	G06156	M135
36	CD2314E833	6		MON			DTL	4		0	8				16m†	1.0 Δ	0	75	2	G06156	TO116
37	CS705G	6		MON			DDL	3									-55	125	2	G0661m	TO91
38	CS705K	6		MON			DDL	3									-55	125	2	G0661m	CN17
39	CS709G	6		MON			DTL	3			8						-55	125	2	G0661m	TO91
40	CS709K	6		MON			DTL	3		0	8						-55	125	2	G0661m	CN17
41	CS731J	6		MON			DTL	2							250m		-55	125	4	G0661t	TO88
42	CS732J	6		MON			DTL	12							250m		-55	125	1	G0661b	TO88
43#	D933-1R	6		MON			DTL	5Δ		0.0	8.0				18m†		-55	125	2	G0694b	M54a
44#	D933-1U	6		MON			DTL	5Δ		0.0	8.0				18m†		-55	125	2	G0694b	TO86
45#	D933-9R	6		MON			DTL	5Δ		0.0	8.0				18m†		0	75	2	G0694b	M54a
46#	D933-9U	6		MON			DTL	5Δ		0.0	8.0				18m†		0	75	2	G0694b	TO86
47	E12001	6		MON			DDL	6		0.0	10						-55	125	1	G0679	CN11
48	E42001	6		MON			DDL	6		0.0	10						-55	125	1	G0679	FP26c
49#	FCY102	6		MON			DTL	4†	1								-55	125	3	G0661j	TO84
50#	FFY101A2	6		MON			DTL	6		0	8						0	75	1	G0661k	TO100
51#	FFY101C1	6		MON			DTL	6		0	8						0	75	1	G0661k	TO91
52#	FFY102A2	6		MON			DTL	6		0	8						-55	125	1	G0661k	TO100
53#	FFY102C1	6		MON			DTL	6		0	8						-55	125	1	G0661k	TO91
54#	FFY111A2	6		MON			DTL	3		0	8						0	75	2	G0661h	TO100
55#	FFY111C1	6		MON			DTL	3		0	8						0	75	2	G0661h	TO91
56#	FFY112A2	6		MON			DTL	3		0	8						-55	125	2	G0661h	TO100
57#	FFY112C1	6		MON			DTL	3		0	8						-55	125	2	G0661h	TO91
58	FuL93329	6		MON			DTL	4		0.0	0.0						0	70	2	Go694	
59	LU300K	6		MON			DTL	3			5.5	5.0n	10nΔ	10nΔ			15	55	2	G0662	CN17
60	MC65	6		MON			DDL	2									-65	175	2	G0643b	CN20
61	MC67	6		MON			DDL	2									-65	175	2	G0646b	CN20
62	MC68	6		MON			DDL	3									-65	175	2	G0646b	CN20
63#	MMG182	6		MON			TTL	4		0.0	5.0	3.0n				900m	0	75	2	G0657	M75
64#	MMG183	6		MON			TTL	4		0.0	5.0	3.0n				900m	0	75	2	G0657	M75
65	NE105G	6		MON			DTL	6									0	70	1	G0661k	TO91
66	NE105K	6		MON			DTL	6									0	70	1	G0661k	CN17
67	NE806J	6		MON			TTL	4		0	6						0	70	2	G06133	TO88
68	NE8731A	6		MON			DDL	2		0	6						0	75	4	G0644k	TO116
69	NE8731J	6		MON			DDL	2		0	6						0	75	4	G0661t	TO88
70	NE8806A	6		MON			TTL	4		0	6						0	75	2	G06133a	TO116
71	NE8806J	6		MON			TTL	4		0	6						0	75	2	G06133	TO88
72	NS705G	6		MON			DDL	3	1							1.0 Δ	0	70	2	G0661m	TO91
73	NS705K	6		MON			DDL	3	1							1.0 Δ	0	70	2	G0661m	CN17
74	NS709G	6		MON			DDL	3	1							1.0 Δ	0	70	2	G0661m	TO91
75	NS709K	6		MON			DDL	3	1							1.0 Δ	0	70	2	G0661m	CN17
76	NS731J	6		MON			DDL	2	1							1.0 Δ	0	70	4	G0644	TO88
77	NS732J	6		MON			DDL	12	1							1.0 Δ	0	70	1	G0644	TO88
78	PD9933-51	6		MON				5Δ		0.0	8.0					1.0	-55	125	2	G0694d	TO116
79	PD9933-59	6		MON			DDL	5Δ		0.0	8.0					1.0	0	75	2	G0694d	TO116
80	PL9933-51	6		MON			DDL	5Δ		0.0	8.0					1.0	-55	125	2	G0694d	TO86
81	PL9933-59	6		MON			DDL	5Δ		0.0	8.0					1.0	0	75	2	G0694d	TO86
82	PM9933-59	6		MON			DDL	5Δ		0.0	8.0					1.0	0	75	2	G0694d	TO116
83	RD202	6		MON			DDL	5		0.0	5.0						-55	125	2	G0690	TO84
84	RD202-1	6		MON			DDL	5Δ	12	0.0	5.0						-55	125	2	G0690	CN14
85	SD331BG	6		MON			DDL	5		0.0	12						-55	125	2	G06110	CN50
86	SD331BJ	6		MON			DDL	5		0.0	12						-55	125	2	G06110	CN50
87	SD331CG	6		MON			DDL	5		0.0	12						-30	100	2	G06110	CN50
88	SD331CJ	6		MON			DDL	5		0.0	12						-30	100	2	G06110	M172
89	SE105G	6		MON			DTL	6									-55	125	1	G0661k	TO91
90	SE105K	6		MON			DTL	6									-55	125	1	G0661k	CN17
91	SE106J	6		MON			DTL	5							250m		-55	125	2	G0661s	TO88
92	SE806J	6		MON			TTL	4		0.0	6.0						-55	125	2	G06133	TO88
93	SE8731A	6		MON			DDL	2		0	6						-55	125	4	G0644k	TO116
94	SE8731J	6		MON			DDL	2		0	6						-55	125	4	G0661t	TO88
95	SE8806A	6		MON			TTL	4		0	6						-55	125	2	G06133a	TO116
96	SE8806J	6		MON			TTL	4		0	6						.55	125	2	G06133	TO88
97	SN17921	6		MON			RTL	2		0.0	5.0		180n	50n			-55	125	2	G06134	
98	SP806A	6		MON			TTL	4		0	6				50m	2.0	15	55	2	G06133a	TO116
99	ST631A	6		MON			DTL	2		0.0	6.0						0	70	4	G0661c	M105
100	ST806A	6		MON			TTL	4		0	6					2.0	0	70	2	G06133a	TO116
101	SU300G	6		MON			DTL	3			5.5		10nΔ	10nΔ			-20	85	2	G0662	TO91
102	SU300K	6		MON			DTL	3			5.5		10nΔ	10nΔ			-20	85	2	G0662	CN17
103	SW727-1D	6		MON			DTL	2		0.0	8.0					1.0	-55	125	4	G06103a	TO85
104	SW727-2D	6		MON			DTL	2		0.0	8.0					1.0	0	75	4	G06103a	TO85
105	SW933-1D	6		MON			DTL	4		0.0	8.0					1.0	-55	125	2	G0694	TO85
106	SW933-2D	6		MON			DTL	4		0.0	8.0					1.0	0	75	2	G0694	TO85
107	TID21	6		MON				9									-65	150	1	G0696b	TO89
108	TID22	6		MON				9									-65	150	1	G0696b	TO89
109	TID23	6		MON				9									-65	150	1	G0696a	TO89
110	TID24	6		MON				9									-65	150	1	G0696a	TO89

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	U5B992128	6		MON			RTL	2		0.0	3.6	15n			40m	250m	15	55	2	G0667	TO99
2	U8A992128	6		MON			RTL	2		0.0	3.6	15n			40m	250m	15	55	2	G0667	CN34
3	U8A992129	6		MON			RTL	2		0.0	3.6	15n			40m	250m	0	70	2	G0667	CN34
4	US731J	6		MON			DTL	2							250m		-55	125	4	G0661t	TO88
5	US732J	6		MON			DTL	12							250m		-55	125	1	G0661b	TO88
6	US0921D	6		MON			RTL	2									-55	125	2	G0667a	TO78
7	US0921E	6		MON			RTL	2			3.0						-55	125	2	G0667a	TO91
8	WC933D	6		MON			DTL	4		0	8						0	75	2	G0694b	M126b
9	WCT227D	6		MON			DTL	4†									0	75	3		TO116
10	WM217G	6		MON			DTL	4†									-55	125	2	G0691	TO84
11	WM217Q	6		MON			DTL	4†									-55	125	2	G0691	TO91
12	WM217T	6		MON			DTL	4†									-55	125	2	G0691	CN18
13	WM227G	6		MON			DTL	4†									55	125	3	G0661j	TO84
14#	OMY125	6		MON		.80*	DTL	5	1						250m		0	75	1	G0644g	TO74
15#	SP561B	6		MON	.23	-1.5	ECT	7	4	7.0	4.0	3.0n			160m	300m	0	100	1	G06145	FP1
16#	SP562B	6		MON	.23	-1.5	ECT	9	2	7.0	4.0	3.0n			80m	300m	0	100	1	G06146	FP1
17#	SP563B	6		MON	.23	-1.5	ECT	10	5	7.0	4.0	3.0n			200m	300m	0	100	1	G06157	FP1
18#	SP564B	6		MON	.23	-1.5	ECT	9	3	7.0	4.0	3.0n			120m	300m	0	100	1	G06148	FP1
19#	SP565B	6		MON	.23	-1.5	ECT	10	1	7.0	4.0	3.0n			40m	300m	0	100	1	G06144	FP1
20	PL9921-21	6		MON	.75%	.45†	RTL	2		0	3	25n					-55	125	2	G0667a	ZB155
21	PL9921-23	6		MON	.75%	.45†	RTL	2		0	3	25n					0	75	2	G0667a	ZB155
22	131AE	6		MON	.80	.25	TTL	3		0	3	15n				300m	-55	125	2	G0678	CN12
23	131AH	6		MON	.80	.25	TTL	3		0	3	15n				300m	-55	125	2	G0678	FP28
24	131BE	6		MON	.80	.25	TTL	3		0	3	15n				265m	-55	125	2	G0678	
25	131BH	6		MON	.80	.25	TTL	3		0	3	15n				265m	-55	125	2	G0678	
26	131CE	6		MON	.80	.25	TTL	3		0	3	15n				250m	0	70	2	G0678	CN11
27	E11001	6		MON	.80	.25	TTL	3		0.0	3.0	15n				300n	-55	125	2	G0678	CN11
28	E11004	6		MON	.80	.25	TTL	3		0.0	3.0	15n				250m	0	70	2	G0678	CN11
29	E11008	6		MON	.80	.25	TTL	3		0.0	3.0	15n				265m	-55	125	2	G0678	CN11
30	E41001	6		MON	.80	.25	TTL	3		0.0	3.0	15n				300n	-55	125	2	G0678	FP26c
31	E41008	6		MON	.80	.25	TTL	3		0.0	3.0	15n				265m	-55	125	2	G0678	FP26
32	1134E	6		MON	.83	.75	RTL			0.0	5.0	40n				350m	-55	125	2	G0668	CN40
33	2134E	6		MON	.83	.75	RTL			0.0	5.0	40n				350m	-55	125	2	G0668	FP20
34#	SP228B	6		MON	.84	.22	RTL	4	2	0.0	8.0	30n				320m	0	70	2	G0667a	CN6a
35#	SP249B	6		MON	.84	.22	RTL	4	4	0.0	8.0	30n				320m	0	70	4	G06149	CN23a
36#	SP278B	6		MON	.84	.22	RTL	4	2	0	8	30n				320m	0	70	2	G0667b	FP2
37#	SP299B	6		MON	.84	.22	RTL	4	4	0	8	30n				320m	0	70	4	G06149	FP2
38	PL921#1	6		MON	.90	.15	RTL	2		0.0	3.0	40nΔ					-55	125	2	G0667	CN13
39	PL921#2	6		MON	.90	.15	RTL	2		0.0	3.0	40nΔ					-55	125	2	G0667	FP2
40	PL979	6		MON	.90	.15	RTL	2		0.0	4.0						-55	125	2	G0695	FP2
41	PL9921	6		MON	.90	.15	RTL	2		0.0	3.0						-55	125	2	G0667	
42	PL9979	6		MON	.90	.15	RTL	2		0.0	4.0						-55	125	2	G0695	FP2
43#	SFC200	6		MON	.92%	.35*	TTL	1	8	0	12	15n			43m†		0	70	1		TO99
44#	SFC221	6		MON	.92%	.35*	TTL	2		0	3.6	25n					0	70	2		TO99
45#	SP328B	6		MON	1.0	.22	RTL	4	2	0	8	12n				320m	0	70	2	G0667a	TO78
46#	SP329B	6		MON	1.0	.22	RTL	3†	2	0	8					320m	0	70	3	G0667c	TO78
47#	SP378B	6		MON	1.0	.22	RTL	4	2	0	8	12n				320m	0	70	2	G0667b	FP2
48#	SP379B	6		MON	1.0	.22	RTL	3†	2	0	8					320m	0	70	3	G0667c	FP2
49	MWuL921	6		MON	1.1	.20	RTL	2		0.0	3.0	25n				250m	-55	125	2	G0667	CN37
50	FuL92129	6		MON	1.1	.25	RTL	2		0.0	3.6	25n				300m	15	55	2	G0667	TO99
51	9006-1-3L	6		MON	1.7%	.90*	TTL	4		0.0	5.0	7.0n			10m†	400m	-55	125	2	G0698a	FP47a
52	9006-1-6B	6		MON	1.7%	.90*	TTL	4		0.0	5.0	7.0n			10m†	400m	-55	125	2	G0698a	M153a
53#	T106D2-16	6		MON	1.7%	.90*	TTL	5Δ	10	0.0	5.0	4.0nΔ			22m†	400m	-55	125	2	G06159	M200
54	6G230D	6		MON	1.7%	1.1*	TTL	10	2	0	6	2.0n			28m		-55	125	1	G06109	M126b
55	6G230G	6		MON	1.7%	1.1*	TTL	10	2	0	6	2.0n			28m		-55	125	1	G06109	FP57
56	6G230K	6		MON	1.7%	1.1*	TTL	10	2	0	6	2.0n			28m		-55	125	1	G06109	M105h
57	6G231D	6		MON	1.7%	1.1*	TTL	10	2	0	6	2.0n			28m		-55	125	1	G06109	M126b
58	6G231G	6		MON	1.7%	1.1*	TTL	10	2	0	6	2.0n			28m		-55	125	1	G06109	FP57
59	6G231K	6		MON	1.7%	1.1*	TTL	10	2	0	6	2.0n			28m		-55	125	1	G06109	M105h
60	6G270D	6		MON	1.7%	1.2*	TTL	4	2	0	6	1.0n			14m		-55	125	2	G06111	M126b
61	6G270G	6		MON	1.7%	1.2*	TTL	4	2	0	6	1.0n			14m		-55	125	2	G06111	FP57
62	6G270K	6		MON	1.7%	1.2*	TTL	4	2	0	6	1.0n			14m		-55	125	2	G06111	M105h
63	6G271D	6		MON	1.7%	1.2*	TTL	4	2	0	6	1.0n			14m		-55	125	2	G06111	M126b
64	6G271G	6		MON	1.7%	1.2*	TTL	4	2	0	6	1.0n			14m		-55	125	2	G06111	FP57
65	6G271K	6		MON	1.7%	1.2*	TTL	4	2	0	6	1.0n			14m		-55	125	2	G06111	M105h
66	PD9629-61	6		MON	1.7%	1.2*	TTL	4		0	5	1.0n			6.3m	1.0	-55	125	2	G06111	TO116
67	PD9629-69	6		MON	1.7%	1.2*	TTL	4		0	5	1.0n			6.3m	1.0	0	75	2	G06111	TO116
68	PD9629-71	6		MON	1.7%	1.2*	TTL	4		0	5	1.0n			6.3m	1.0	-55	125	2	G06111	TO116
69	PD9629-79	6		MON	1.7%	1.2*	TTL	4		0	5	1.0n			6.3m	1.0	0	75	2	G06111	TO116
70	PL9629-61	6		MON	1.7%	1.2*	TTL	4		0	5	1.0n			6.3m	1.0	-55	125	2	G06111	TO86
71	PL9629-69	6		MON	1.7%	1.2*	TTL	4		0	5	1.0n			6.3m	1.0	0	75	2	G06111	TO86
72	PL9629-71	6		MON	1.7%	1.2*	TTL	4		0	5	1.0n			6.3m	1.0	-55	125	2	G06111	TO86
73	PL9629-79	6		MON	1.7%	1.2*	TTL	4		0	5	1.0n			6.3m	1.0	0	75	2	G06111	TO86
74	9006-9-3L	6		MON	1.8%	.85*	TTL	4		0.0	5.0	7.0n			12m†	400m	0	75	2	G0698a	FP47a
75	9006-9-6B	6		MON	1.8%	.85*	TTL	4		0.0	5.0	7.0n			12m†	400m	0	75	2	G0698a	M153a
76#	T106B1-16	6		MON	1.8%	.85*	TTL	5Δ	10	0.0	5.0	5.0nΔ			22m†	400m	0	75	2	G06159c	M200
77#	T106D1-16	6		MON	1.8%	.85*	TTL	5Δ	10	0.0	5.0	5.0nΔ			22m†	400m	0	75	2	G06159c	M200
78	6G232D	6		MON	1.8%	1.1*	TTL	10	2	0	6	2.0n			28m		0	75	1	G06109	M126b
79	6G232G	6		MON	1.8%	1.1*	TTL	10	2	0	6	2.0n			28m		0	75	1	G06109	FP57
80	6G232K	6		MON	1.8%	1.1*	TTL	10	2	0	6	2.0n			28m		0	75	1	G06109	M105h
81	6G233D	6		MON	1.8%	1.1*	TTL	10	2	0	6	2.0n			28m		0	75	1	G06109	M126b
82	6G233G	6		MON	1.8%	1.1*	TTL	10	2	0	6	2.0n			28m		0	75	1	G06109	FP57
83	6G233K	6		MON	1.8%	1.1*	TTL	10	2	0	6	2.0n			28m		0	75	1	G06109	M105h
84	6G272D	6		MON	1.8%	1.1*	TTL	4	2	0	6	1.0n			14m		0	75	2	G06111	M126b
85	6G272G	6		MON	1.8%	1.1*	TTL	4	2	0	6	1.0n			14m		0	75	2	G06111	FP57
86	6G272K	6		MON	1.8%	1.1*	TTL	4	2	0	6	1.0n			14m		0	75	2	G06111	M105h
87	6G273D	6		MON	1.8%	1.1*	TTL	4	2	0	6	1.0n			14m		0	75	2	G06111	M126b
88	6G273G	6		MON	1.8%	1.1*	TTL	4	2	0	6	1.0n			14m		0	75	2	G06111	FP57
89	6G273K	6		MON	1.8%	1.1*	TTL	4	2	0	6	1.0n			14m		0	75	2	G06111	M105h
90	DTuL933#1	6		MON	1.9	1.0	DDL	4	0	0.0	5.0				8.5m	1.0	0	75	2	G0694	FP28
91	DTuL933#2	6		MON	1.9	1.0	DDL	4	0	0.0	5.0				8.5m	1.0	0	75	2	G0694	M54
92#	5460-1-6A	6		MON	2.0%	.80*	TTL	5Δ	10	0.0	5.0	20n%			20m†		-55	125	2	G06159c	M157
93#	7460-9-6A	6		MON	2.0%	.80*	TTL	4	10	0.0	5.0	30nΔ			20m†	1.0 Δ	0	70	2	G0698	M157
94	NC460N	6		MON	2.0%	.80*	TTL	4		0.0	7.0				4.0m†	1.0	0	70	2	G0698	M75a
95	PD7460	6		MON	2.0%	.80*	TTL	5Δ	10	0.0	5.0	34nΔ			4.0mΔ	1.0	0	75	2	G0698	M105v
96	SN54H60F	6		MON	2.0%	.80*	TTL	4			7					1.0 Δ	-55	125	2	G0698b	TO84
97	SN54H61F	6		MON	2.0%	.80*	TTL	3			7					1.0 Δ	-55	125	3	G06157	TO84
98	SN54H62F	6		MON	2.0%	.80*	TTL	10			7					1.0 Δ	-55	125	1	G06143a	TO84
99	SN74H60F	6		MON	2.0%	.80*	TTL	4			7					1.0 Δ	0	70	2	G0698b	TO84
100	SN74H61F	6		MON	2.0%	.80*	TTL	3			7					1.0 Δ	0	70	3	G06157	TO84
101	SN74H62F	6		MON	2.0%	.80*	TTL	10			7					1.0 Δ	0	70	1	G06143a	TO84
102	SN5460	6		MON	2.0%	.80*	TTL	4		0	7	27n%				1.0	-55	125	2	G0698	TO84
103	SN7460	6		MON	2.0%	.80*	TTL	4	10	0	7	27n%				1.0	0	70	2	G0698	TO84
104	TG7460E	6		MON	2.0%	.80*	TTL	4	10	0.0	7.0	27n			4.0mΔ	1.0	0	70	2	G0698	TO116
105	US5461A	6		MON	2.0%	.80*	TTL	3			7.0					1.0 Δ	-55	125	3	G06157	M105b
106	US5461J	6		MON	2.0%	.80*	TTL	3			7.0					1.0 Δ	-55	125	3	G06157	TO88
107	US5462A	6		MON	2.0%	.80*	TTL	10			7.0					1.0 Δ	-55	125	1	G06143a	M105b
108	US5462J	6		MON	2.0%	.80*	TTL	10			7.0					1.0 Δ	-55	125	1	G06143a	TO88
109	US7461A	6		MON	2.0%	.80*	TTL	3			7.0					1.0 Δ	0	70	3	G06157	M105b
110	US7461J	6		MON	2.0%	.80*	TTL	3			7.0					1.0 Δ	0	70	3	G06157	TO88

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	US7462A	6		MON	2.0%	.80*	TTL	10			7.0					1.0 Δ	0	70	1	G06143a	M105b
2	US7462J	6		MON	2.0%	.80*	TTL	10			7.0					1.0 Δ	0	70	1	G06143a	TO88
3	USN7460A	6		MON	2.0%	.80*	TTL	4		0	7	34nΔ			20m	1.0 Δ	0	70	2	G06133a	TO116
4	USN7460J	6		MON	2.0%	.80*	TTL	4		0	7	34nΔ			20m	1.0 Δ	0	70	2	G06133	TO88
5	USS5460A	6		MON	2.0%	.80*	TTL	4		0	7	34nΔ			20m	1.0 Δ	-55	125	2	G06133a	TO116
6	USS5460J	6		MON	2.0%	.80*	TTL	4		0	7	34nΔ			20m	1.0 Δ	-55	125	2	G06133	TO88
7	WC7460D	6		MON	2.0%	.80*	TTL	4		0.0	7.0				4.0mΔ	1.0	0	75	2	G0698	M126b
8	RC933D	6		MON	2.0%	1.0*	DTL	3		0	5.0						0	75	2		M105m
9	RC933J	6		MON	2.0%	1.0*	DTL	3		0	5.0						0	75	2		FP28
10	RC933P	6		MON	2.0%	1.0*	DTL	3		0	5.0						0	75	2		M105k
11	RC933T	6		MON	2.0%	1.0*	DTL	3		0	5.0						0	75	2		TO101
12	RM933D	6		MON	2.0%	1.0*	DTL	3		0	5.0						-55	125	2		M105m
13	RM933P	6		MON	2.0%	1.0*	DTL	3		0	5.0						-55	125	2		M105k
14	PD9935-51	6		MON	2.0	1.1	DTL	6	10	0.0	8.0	35n	10	10	1.7m†	1.0	-55	125	4	K0667c	TO116
15	PD9935-59	6		MON	2.0	1.1	DTL	6	10	0.0	8.0	35n	10	10	1.7m†	1.0	0	75	4	K0667c	TO116
16	PL933	6		MON	2.0	1.1	DDL	4		0.0	5.0						-55	125	2	G0694	TO86
17	PL9933	6		MON	2.0	1.1	DDL	4		0.0	5.0						-55	125	2	G0694	TO86
18	PL9935-51	6		MON	2.0	1.1	DTL	6	10	0.0	8.0	35n	10	10	1.7m†	1.0	-55	125	4	K0667c	TO86
19	PL9935-59	6		MON	2.0	1.1	DTL	6	10	0.0	8.0	35n	10	10	1.7m†	1.0	0	75	4	K0667c	TO86
20	SI833	6		MON	2.0	1.1	DTL	4	2	0	5.5						0	75	2	G0694	TO84
21	SI933	6		MON	2.0	1.1	DTL	4	2	0	5.5						-55	125	2	G0694	TO84
22	NS730J	6		MON	2.0	1.2	DTL	5	1			60n		75n		1.0 Δ	0	70	2		TO88
23	SN7320N	6		MON	2.6	.30	TTL	5		0.0	4.0						0	70	1	G0683a	M⍁
24	DTL393351	6		MON	2.6%	.40†*	DTL	4		0.0	8.0					500m	-55	125	2	G06107	FP28
25	DTL693351	6		MON	2.6%	.40†*	DTL	4		0.0	8.0					500m	-55	125	2	G06107	M54
26	PE9933-59	6		MON	2.6	.45	DTL	4	0	0.0	5.0				22m	1.0			2	G0694c	M131
27	A04A	6		MON	2.7	1.7	DTL	6		0.0	5.0						-55	125	1	G0686	CN16
28	A04F	6		MON	2.7	1.7	DTL	6		0.0	5.0						-55	125	1	G0686	TO84
29	A44A	6		MON	2.7	1.7	DTL	6		0.0	5.0						0	70	1	G0686	CN16
30	A44F	6		MON	2.7	1.7	DTL	6		0.0	5.0						0	70	1	G0686	TO84
31	DTL393359	6		MON	2.8%	.45†*	DTL	4		0.0	8.0					500m	0	75	2	G06107	FP28
32	DTL693359	6		MON	2.8%	.45†*	DTL	4		0.0	8.0					500m	0	75	2	G06107	M54
33	PD9857-51	6		MON	3.0	.20	DTL	2	25	25	0.0	35n	10	10	175m†		-55	125	4	G06162	TO116
34	PD9857-59	6		MON	3.0	.20	DTL	2	25	25	0.0	35n	10	10	175m†		0	75	4	G06162	TO116
35	PL9857-51	6		MON	3.0	.20	DTL	2	25	25	0.0	35n	10	10	175m†		-55	125	4	G06162	TO86
36	PL9857-59	6		MON	3.0	.20	DTL	2	25	25	0.0	35n	10	10	175m†		0	75	4	G06162	TO86
37#	OMY105	6		MON	3.0%	.75*	DTL	5	1						250m		-55	125	1	G0644g	TO74
38	6G290G	6		MON	3.3	.26	TTL	3†	15†	0	5	10n	5.0n	8.0n	152m	1.0	-55	125	2	G06141	TO84
39	6G290K	6		MON	3.3	.26	TTL	3†	15†	0	5	10n	5.0n	8.0n	152m	1.0	-55	125	2	G06141	TO116
40	6G291G	6		MON	3.3	.26	TTL	3†	7†	0	5	10n	5.0n	8.0n	152m	1.0	-55	125	2	G06141	TO84
41	6G291K	6		MON	3.3	.26	TTL	3†	7†	0	5	10n	5.0n	8.0n	152m	1.0	-55	125	2	G06141	TO116
42	6G292D	6		MON	3.3	.26	TTL	3†	12†	0	5	10n	5.0n	8.0n	152m	1.0	0	75	2	G06141	TO116
43	6G292G	6		MON	3.3	.26	TTL	3†	12†	0	5	10n	5.0n	8.0n	152m	1.0	0	75	2	G06141	TO84
44	6G293D	6		MON	3.3	.26	TTL	3†	6†	0	5	10n	5.0n	8.0n	152m	1.0	0	75	2	G06141	TO116
45	6G293G	6		MON	3.3	.26	TTL	3†	6†	0	5	10n	5.0n	8.0n	152m	1.0	0	75	2	G06141	TO84
46	PD9636-61	6		MON	3.3	.26	TTL	3†	15†	0	5	10n	5.0n	8.0n	140m	1.0	-55	125	2	G06141	TO116
47	PD9636-69	6		MON	3.3	.26	TTL	3†	12†	0	5	10n	5.0n	8.0n	140m	1.0	0	75	2	G06141	TO116
48	PD9636-71	6		MON	3.3	.26	TTL	3†	7†	0	5	10n	5.0n	8.0n	140m	1.0	-55	125	2	G06141	TO116
49	PD9636-79	6		MON	3.3	.26	TTL	3†	6†	0	5	10n	5.0n	8.0n	140m	1.0	0	75	2	G06141	TO116
50	PL9636-61	6		MON	3.3	.26	TTL	3†	15†	0	5	10n	5.0n	8.0n	140m	1.0	-55	125	2	G06141	TO86
51	PL9636-69	6		MON	3.3	.26	TTL	3†	12†	0	5	10n	5.0n	8.0n	140m	1.0	0	75	2	G06141	TO86
52	PL9636-71	6		MON	3.3	.26	TTL	3†	7†	0	5	10n	5.0n	8.0n	140m	1.0	-55	125	2	G06141	TO86
53	PL9636-79	6		MON	3.3	.26	TTL	3†	6†	0	5	10n	5.0n	8.0n	140m	1.0	0	75	2	G06141	TO86
54	SG290	6		MON	3.3	.26	TTL	3†	15†	0	5	10n	5.0n	8.0n	152m	1.0	-55	125	2	G06141	ZB100
55	SG291	6		MON	3.3	.26	TTL	3†	7†	0	5	10n	5.0n	8.0n	152m	1.0	-55	125	2	G06141	ZB100
56	SG292	6		MON	3.3	.26	TTL	3†	12†	0	5	10n	5.0n	8.0n	152m	1.0	0	75	2	G06141	ZB100
57	SG293	6		MON	3.3	.26	TTL	3†	6†	0	5	10n	5.0n	8.0n	152m	1.0	0	75	2	G06141	ZB100
58	RG151P	6		MON	3.4	.20	TTL	10		0.0	5	4.0n			20m†	1.1	-55	125	4		M105k
59	RG152P	6		MON	3.4	.20	TTL	10		0.0	5	4.0n			20m†	1.1	0	75	4		M105k
60	RG153P	6		MON	3.4	.20	TTL	10		0.0	5	4.0n			20m†	1.1	0	75	4		M105k
61	RG170P	6		MON	3.4	.20	TTL	4		0.0	5	1.0n			10m†	1.1	-55	125	2		M105k
62	RG171P	6		MON	3.4	.20	TTL	4		0.0	5	1.0n			10m†	1.1	-55	125	2		M105k
63	RG172P	6		MON	3.4	.20	TTL	4		0.0	5	1.0n			10m†	1.1	0	75	2		M105k
64	RG173P	6		MON	3.4	.20	TTL	4		0.0	5	1.0n			10m†	1.1	0	75	2		M105k
65	RG290P	6		MON	3.4	.20	TTL	5		0.0	5.0	7.0n			30m†	1.0	-55	125	2		M105k
66	RG291P	6		MON	3.4	.20	TTL	5		0.0	5.0	7.0n			30m†	1.0	-55	125	2		M105k
67	RG292P	6		MON	3.4	.20	TTL	5		0.0	5.0	7.0n			30m†	1.0	0	75	2		M105k
68	RG293P	6		MON	3.4	.20	TTL	5		0.0	5.0	7.0n			30m†	1.0	0	75	2		M105k
69	LU301A	6		MON	3.5%	.40†		2	12†	0.0	5.0	45n			180m†	1.2	10	55	4	G04400	M105q
70#	SFC305M	6		MON	3.5%	.45*	DTL	6		0	8	25n			10m†		-55	125	1	G0661g	TO100
71#	SFC305PM	6		MON	3.5%	.45*	DTL	6		0	8	25n			10m†		-55	125	1	G0661g	TO91
72#	SFC309M	6		MON	3.5%	.45*	DTL	3		0	8	25n			20m†		-55	125	2	G0661h	TO100
73#	SFC309PM	6		MON	3.5%	.45*	DTL	3		0	8	25n			20m†		-55	125	2	G0661h	TO91
74	SFC305	6		MON	3.5%	.65*	DTL	6		0	8	4.0n%			10m	650m	0	80	1	G0661g	ZB163
75	SFC309	6		MON	3.5%	.65*	DTL	6		0	8	4.0n%			10m	650m	0	80	2	G0661h	ZB163
76	MC428F	6		MON	3.5%	1.05*†	TTL	5		0.0	6.0	15nΔ	8.0n	5.0n	15m†		0	75	2	G06165	TO85
77	NE106A	6		MON	3.9%	.45*†	DTL	5									0	70	2	G0661d	TO116
78	NE106J	6		MON	3.9%	.45*†	DTL	5									0	70	2	G0661	TO88
79	SI933D	6		MON	4.5	.30	DDL	4		0.0	6.0					400m	0	75	2	G0694	FP28
80#	MMG152	6		MON	4.8%	.65*	TTL	10		0.0	5.0	4.0n			20m†	900m	0	75	1	G0655	M75
81#	MMG153	6		MON	4.8%	.65*	TTL	10		0.0	5.0	4.0n			20m†	900m	0	75	1	G0655	M75
82#	MMG172	6		MON	4.8%	.65*	TTL	4		0.0	5.0	1.0n			10m†	900m	0	75	2	G0656b	M75
83#	MMG173	6		MON	4.8%	.65*	TTL	4		0.0	5.0	1.0n			10m†	900m	0	75	2	G0656b	M75
84	331BG	6		MON	11.3	1.2†	DDL	5		0.0	12	40n				5.0 Δ	-55	125	2	G06110	CN69
85	331BJ	6		MON	11.3	1.2†	DDL	5		0.0	12	40n				5.0 Δ	-55	125	2	G06110	M172
86	331BN	6		MON	11.3	1.2†	DDL	5		0.0	12	40n				5.0 Δ	-55	125	2	G06110	M204
87	331CG	6		MON	11.3	1.2†	DDL	5		0.0	12	40n				5.0 Δ	-30	85	2	G06110	CN69
88	331CN	6		MON	11.3	1.2†	DDL	5		0.0	12	40n				5.0 Δ	-30	85	2	G06110	M204
89	AND2Z	6		PCB			DDL	3†											8	G0689a	CB14
90	OR2Z	6		PCB			DDL	3†											8		CB14
91	CL821	6		PCM			DTL	4	20								0	75	4		CB⍁
92	AND2M	6		3DM			DDL	3†											3	G0689a	
93	OR2M	6		3DM			DDL	3†											3	G0689a	
94	RG150P	6	20	MON	3.4	.20	TTL	10		0.0	5.0	4.0n			20m†	1.1	-55	125	4		M105k
95#	30007-02-2-801	6	100k	PCB	-12	0.0	RTL	3	1	12	12	600n	1.5u	1.0u	64m	8.0	0	50	10	G0677a	
96#	30007-03-2-801	6	100k	PCB	-12	0.0	RTL	2	1	12	12	600n	1.5u	1.0u	64m	8.0	0	50	20	G0677	
97#	30009-01-2-801	6	100k	PCB	-12	0.0	RTL	6	1	12	12	600n	1.5u	1.0u	64m	8.0	0	50	4	G0677b	
98#	30013-01-2-801	6	100k	PCB	-12	0.0	RTL	3	1	12	12	600n	1.5u	1.0u	64m	8.0	0	50	8	G0677c	
99	11G2311-01	6	200k	PCB	8.2	0.0		2		0.0	28							85	10	G0686c	CB49
100	11G2321-01	6	200k	PCB	8.2	0.0		4		0.0	28	500n	200n					85	6	G0686b	CB49
101	11G2378	6	200k	PCB	8.2	0.0		2		0.0	28	1.0u	800n					85	10	G06116	CB49
102	11G2378-01	6	200k	PCB	8.2	0.0		2		0.0	28	1.0u	800n					85	10	G06117	CB49
103	11G2378A	6	200k	PCB	8.2	0.0		2		0.0	28							85	10	G0686c	CB49
104	11G2378B	6	200k	PCB	8.2	0.0		2		0.0	28							85	10	G0672a	CB49
105	GC14	6	300k	PCB	8.0	0.0	DTL	2	1		25	5.0n			500m	700m	-55	100	12	G0675	CB34
106	DBSG1033ZA	6	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	0	50	4	G0664	M52

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL		LOGIC TYPE	FAN IN	FAN OUT	POWER SUPPLY SPAN		PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
					4 '1' (V)	5 '0' (V)				NEG. (V)	POS. (V)										
1	DBSG1033ZAN	6	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	0	50	4	G0664	MP52a
2	DBSG1033ZB	6	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-20	75	4	G0664	M52
3	DBSG1033ZBN	6	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-20	75	4	G0664	MP52a
4	DBSG1033ZC	6	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-40	100	4	G0664	M52
5	DBSG1033ZCN	6	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-40	100	4	G0664	MP52a
6	DBSG1033ZD	6	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-55	125	4	G0664	M52
7	DBSG1033ZDN	6	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-55	125		G0664	MP52a
8	DCSG1033ZA	6	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-55	125	4	G0664	CB29
9	DCSG1033ZB	6	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-20	75	4	G0664	CB29
10	DCSG1033ZC	6	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-40	100	4	G0664	CB29
11	DCSG1033ZD	6	1.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-55	125	4	G0664	CB29
12	GH14	6	1.0M	PCB	8.0	0.0	DTL	2	1		25	5.0n			1.1	700m	-55	100	12	G0675	CB34
13	DG201	6	1.0M	PCB	10	.40		3†									-55	100	9	G0693	CB15
14	6GEH	6	1.0M	PCB	-10	0.0	DTL	3									0	50	6	G06101	CB19
15	1039-0006	6	2.0M	3DM	7.5	0.0		3	12								-55	85	2	G0649	M26e
16	FF21-3	6	2.0M	3DM	10	0.0	DTL	3	3	12	12	20n	50n	30n	75m	2.0	-35	125	1	B069b	M16
17	331AG	6	4.0M	MON				6	25†	0.0	12	60n†	60n†	60n†	25m	4.0mΔ	55	125	2	G06110	CN50
18	DBSG1033YA	6	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	0	50	4	G0664	M52
19	DBSG1033YAN	6	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	0	50	4	G0664	MP52a
20	DBSG1033YB	6	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-20	75	4	G0664	M52
21	DBSG1033YBN	6	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-20	75	4	G0664	MP52a
22	DBSG1033YC	6	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-40	100	4	G0664	M52
23	DBSG1033YCN	6	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-40	100	4	G0664	MP52a
24	DBSG1033YD	6	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-55	125	4	G0664	M52
25	DBSG1033YDN	6	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-55	125	4	G0664	MP52a
26	DCSG1033YA	6	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-55	125	4	G0664	CB29
27	DCSG1033YB	6	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	0	50	4	G0664	CB29
28	DCSG1033YC	6	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-20	75	4	G0664	CB29
29	DCSG1033YD	6	5.0M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-40	100	4	G0664	CB29
30	IG12H	6	5.0M	MOH	0.0	5.0		3									0	100	12		CB7
31	IG12M	6	5.0M	MOH	0.0	5.0		3									0	70	12		CB7
32	RM217Q	6	5.0M	MON			DTL	4†									-55	125	2	G0691	FP46
33	WC217T	6	5.0M	MON			DTL	4†		0	6					700m	0	75	2	G0691	CN18
34	WC227D	6	5.0M	MON			DTL	4†		0	6					700m	0	75	3	G0691	TO116
35	WC227G	6	5.0M	MON			DTL	4†		0	6					700m	0	75	3	G0691	TO84
36	DE335	6	5.0M	PCB				4†		0	5	24n					0	55	9	G0661w	
37	IG12L	6	5.0M	PCB	0.0	5.5	TTL	3		0	5.5				246m		0	55	12		CB7
38	IG12S	6	5.0M	PCB	0.0	5.5	TTL	3		0	5.5				246m		-40	85	12		CB7
39	IGE0204	6	5.0M	PCB	2.0%	1.1*	DTL	4	1							500m	0	75	6	G013u	CB51
40	IGE2204	6	5.0M	PCB	2.0%	1.1*	DTL	4	1							500m	0	75	6	G013u	CB51
41	GG855	6	5.0M	PCB	2.2%	.70*	DTL	4		0	5	50n				400m	0	75	8		CB∅
42	NN5205	6	5.0M	PCB	2.6%	.70*	DTL	4	1	0	5					1.0 Δ	0	70	6		CB56
43	RG31	6	5.0M	PCB	3.0	0.0	DDL	5	1			40n	40n	40n		1.0	-40	70	6		CB10a
44	1011	6	5.0M	PCB	-3.0	0.0	DDL	2	2	15	10				220m		-20	55	6	G0673	CB30
45	DBSG1033XA	6	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	0	50	4	G0664	M52
46	DBSG1033XAN	6	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	0	50	4	G0664	MP52a
47	DBSG1033XB	6	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-20	75	4	G0664	M52
48	DBSG1033XBN	6	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-20	75	4	G0664	MP52a
49	DBSG1033XC	6	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-40	100	4	G0664	M52
50	DBSG1033XCN	6	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-40	100	4	G0664	MP52a
51	DBSG1033XD	6	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-55	125	4	G0664	M52
52	DBSG1033XDN	6	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-55	125	4	G0664	MP52a
53	DCSG1033XA	6	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	0	50	4	G0664	CB29
54	DCSG1033XB	6	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	0	50	4	G0664	CB29
55	DCSG1033XC	6	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-20	75	4	G0664	CB29
56	DCSG1033XD	6	10M		6.0	1.0†	DDL	11		0.0	12	10n	10n	10n		350m	-40	100	4	G0664	CB29
57	MC1116	6	10M	MOH			DTL	9									-55	125	1	G0682	CN9
58	MC1117	6	10M	MON			DTL	9									-55	125	1	G0682a	CN9
59#	ZXD211A	6	10M	MON	.40	3.2	DTL	10	2								-55	125	2		M105
60#	ZXD231A	6	10M	MON	.40	3.2	DTL	10	2								0	70	2		M105
61	2NC1021	6	10M	MON	.75	.22	RTL	2		0.0	4	25n	25n			250m	-55	125	1	G0667	CN19
62	2NC2021	6	10M	MON	.80	.24	RTL	2		0.0	4	25n	25n			200m	0	100	1	G0667	CN19
63	2NC3021	6	10M	MON	.80	.24	RTL	2		0.0	3.6	25n	25n			170m	15	65	1	G0667	CN19
64	2NC4021	6	10M	MON	.80	.24	RTL	2		0.0	4	25n	25n			200m	0	75	1	G0667	CN19
65	SN1500	6	10M	MON	2.5	.40†	DTL	4		0.0	5.5				10m	750m	-55	125	2	G06107	TO84
66	G403	6	10M	PCB	-6.0	0.0	DDL										-55	71	5	G06162	CB16
67	GA403	6	10M	PCB	-6.0	0.0	DDL										-55	71	5		CB16
68	DBSG1033	6	10M	PCM	6.0%	1†*	DDL	11		0	0	10n%							4	G0664	M52
69	DCSG1033	6	10M	PCM	6.0%	1†*	DDL	11		0	12	10n%							4	G0664	CB29
70	MMSG2006	6	15M		2.5	.25	DDL	3				10n				350m	-55	125	2	G013r	FP13
71	MC217F	6	15M	MON	4.0	.30	DTL	3		0	8						-55	125	2	G0661h	TO91
72	MC217G	6	15M	MON	4.0	.30	DTL	3		0	8						-55	125	2	G0661h	CN8
73	MC267F	6	15M	MON	4.0	.30	DTL	3		0	8						0	75	2	G0661h	TO91
74	MC267G	6	15M	MON	4.0	.30	DTL	3		0	8						0	75	2	G0661h	CN8
75#	ZSD71	6	20M%	MON	.40	3.2	DTL	10	2								-55	125	2		TO88
76#	ZSD71A	6	20M%	MON	.40	3.2	DTL	10	2								-55	125	2	G06140	TO88
77#	ZSD91	6	20M%	MON	.40	3.2	DTL	10	2								0	70	2		TO88
78#	ZSD91A	6	20M%	MON	.40	3.2	DTL	10	2								0	70	2	G06140	TO88
79#	ZSD141A	6	20M%	MON	.40	3.2	DTL	10	2								-55	125	2	G06140	TO88
80#	ZSD151A	6	20M%	MON	.40	3.2	DTL	10	2								0	70	2	G06140	TO88
81#	ZSD211A	6	20M%	MON	.40	3.2	DTL	10	2								-55	125	2	G06140	M105
82#	ZSD231A	6	20M%	MON	.40	3.2	DTL	10	2								0	70	2	G06140	M105
83#	ZXD201A	6	20M%	MON	.40	3.2	DTL	10	2								-55	125	2	G06140	M105
84#	ZXD221A	6	20M%	MON	.40	3.2	DTL	10	2								-55	125	2	G06140	M105
85	TNG4031	6	20M	MON	3.0	.30	TTL	4	7	0.0	7.0	15n			15m	1.0 Δ	15	55	1	G0678a	CN13a
86	TNG5031	6	20M	MON	3.0	.30	TTL	2	7	0.0	7.0	15n			15m	1.0 Δ	15	55	2	G06109a	CN13a
87	6G150G	6	20M	MON	3.3	.26	TTL	10	15†	0	5	4.0n			20m	900m	-55	125	1	G06143	TO84
88	6G150K	6	20M	MON	3.3	.26	TTL	10	15†	0	5	4.0n			20m	900m	-55	125	1	G06143	TO116
89	6G151G	6	20M	MON	3.3	.26	TTL	10	7†	0	5	4.0n			20m	900m	-55	125	1	G06143	TO84
90	6G151K	6	20M	MON	3.3	.26	TTL	10	7†	0	5	4.0n			20m	900m	-55	125	1	G06143	TO116
91	6G152D	6	20M	MON	3.3	.26	TTL	10	12†	0	5	4.0n			20m	900m	0	75	1	G06143	TO116
92	6G152G	6	20M	MON	3.3	.26	TTL	10	12†	0	5	4.0n			20m	900m	0	75	1	G06143	TO84
93	6G153D	6	20M	MON	3.3	.26	TTL	10	6†	0	5	4.0n			20m	900m	0	75	1	G06143	TO116
94	6G153G	6	20M	MON	3.3	.26	TTL	10	6†	0	5	4.0n			20m	900m	0	75	1	G06143	TO84
95	6G170G	6	20M	MON	3.3	.26	TTL	4	15†	0	5	3.0n			5.0m	900m	-55	125	2	G0656	TO84
96	6G170K	6	20M	MON	3.3	.26	TTL	4	15†	0	5	3.0n			5.0m	900m	-55	125	2	G0656	TO116
97	6G171G	6	20M	MON	3.3	.26	TTL	4	7†	0	5	3.0n			5.0m	900m	-55	125	2	G0656	TO84
98	6G171K	6	20M	MON	3.3	.26	TTL	4	7†	0	5	3.0n			5.0m	900m	-55	125	2	G0656	TO116
99	6G172D	6	20M	MON	3.3	.26	TTL	4	12†	0	5	3.0n			5.0m	900m	0	75	2	G0656	TO116
100	6G172G	6	20M	MON	3.3	.26	TTL	4	12†	0	5	3.0n			5.0m	900m	0	75	2	G0656	TO84
101	6G173D	6	20M	MON	3.3	.26	TTL	4	6†	0	5	3.0n			5.0m	900m	0	75	2	G0656	TO116
102	6G173G	6	20M	MON	3.3	.26	TTL	4	6†	0	5	3.0n			5.0m	900m	0	75	2	G0656	TO84
103	6G180G	6	20M	MON	3.3	.26	TTL	4	15†	0	5	3.0n				900m	-55	125	2	G0657	TO84
104	6G180K	6	20M	MON	3.3	.26	TTL	4	15†	0	5	3.0n				900m	-55	125	2	G0657	TO116
105	6G181G	6	20M	MON	3.3	.26	TTL	4	7†	0	5	3.0n				900m	-55	125	2	G0657	TO84
106	6G181K	6	20M	MON	3.3	.26	TTL	4	7†	0	5	3.0n				900m	-55	125	2	G0657	TO116
107	6G182D	6	20M	MON	3.3	.26	TTL	4	12†	0	5	3.0n				900m	0	75	2	G0657	TO116
108	6G182G	6	20M	MON	3.3	.26	TTL	4	12†	0	5	3.0n				900m	0	75	2	G0657	TO84
109	6G183D	6	20M	MON	3.3	.26	TTL	4	6†	0	5	3.0n				900m	0	75	2	G0657	TO116
110	6G183G	6	20M	MON	3.3	.26	TTL	4	6†	0	5	3.0n				900m	0	75	2	G0657	TO84

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

8. GATES

IN ORDER OF (1) GATE (2) MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF GATE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC			FAN		POWER SUPPLY SPAN		PROPAGATION DELAY (s)	MAX.		MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP.		CKT PER MOD	DRAWINGS	
					LEVEL 4 '1' (V)	LEVEL 5 '0' (V)	TYPE	IN	OUT	NEG. (V)	POS. (V)		RISE TIME tr (s)	FALL TIME tf (s)			LOW °C	HI °C		LOGIC DWG. No	OUTLINE DWG. No Δ=MO
1#	MMG150#1	6	20M	MON	3.3	.26	TTL	10	15	0.0	5.0	4.0n			20m	900m	-55	125	1	G0655	FP18
2#	MMG150#2	6	20M	MON	3.3	.26	TTL	10	15	0.0	5.0	4.0n			20m	900m	-55	125	1	G0655	M75
3#	MMG151#1	6	20M	MON	3.3	.26	TTL	10	7	0.0	5.0	4.0n			20m	900m	-55	125	1	G0655	FP18
4#	MMG151#2	6	20M	MON	3.3	.26	TTL	10	7	0.0	5.0	4.0n			20m	900m	-55	125	1	G0655	M75
5#	MMG170#1	6	20M	MON	3.3	.26	TTL	4	15	0.0	5.0	3.0n			5.0m	900m	-55	75	2	G0656	FP18
6#	MMG170#2	6	20M	MON	3.3	.26	TTL	4	15	0.0	5.0	3.0n			5.0m	900m	-55	75	2	G0656	M75
7#	MMG171#1	6	20M	MON	3.3	.26	TTL	4	7	0.0	5.0	3.0n			5.0m	900m	-55	75	2	G0656	FP18
8#	MMG171#2	6	20M	MON	3.3	.26	TTL	4	7	0.0	5.0	3.0n			5.0m	900m	-55	75	2	G0656	M75
9#	MMG180#1	6	20M	MON	3.3	.26	TTL	4	15	0.0	5.0	3.0n				900m	-55	125	2	G0657	FP18
10#	MMG180#2	6	20M	MON	3.3	.26	TTL	4	15	0.0	5.0	3.0n				900m	-55	125	2	G0657	M75
11#	MMG181#1	6	20M	MON	3.3	.26	TTL	4	7	0.0	5.0	3.0n				900m	-55	125	2	G0657	FP18
12#	MMG181#2	6	20M	MON	3.3	.26	TTL	4	7	0.0	5.0	3.0n				900m	-55	125	2	G0657	M75
13	SG150	6	20M	MON	3.3	.26	TTL	10	15†	0	5	4.0n			20m	900m	-55	125	1	G06143	ZB100
14	SG151	6	20M	MON	3.3	.26	TTL	10	7†	0	5	4.0n			20m	900m	-55	125	1	G06143	ZB100
15	SG152	6	20M	MON	3.3	.26	TTL	10	12†	0	5	4.0n			20m	900m	0	75	1	G06143	ZB100
16	SG153	6	20M	MON	3.3	.26	TTL	10	6†	0	5	4.0n			20m	900m	0	75	1	G06143	ZB100
17	SG170	6	20M	MON	3.3	.26	TTL	4	15†	0	5	3.0n			5.0m	900m	-55	75	2	G0656	ZB100
18	SG171	6	20M	MON	3.3	.26	TTL	4	7†	0	5	3.0n			5.0m	900m	-55	75	2	G0656	ZB100
19	SG172	6	20M	MON	3.3	.26	TTL	4	12†	0	5	3.0n			5.0m	900m	0	75	2	G0656	ZB100
20	SG173	6	20M	MON	3.3	.26	TTL	4	6†	0	5	3.0n			5.0m	900m	0	75	2	G0656	ZB100
21	SG180	6	20M	MON	3.3	.26	TTL	4	15†	0	5	3.0n				900m	-55	125	2	G0657	ZB100
22	SG181	6	20M	MON	3.3	.26	TTL	4	7†	0	5	3.0n				900m	-55	125	2	G0657	ZB100
23	SG182	6	20M	MON	3.3	.26	TTL	4	12†	0	5	3.0n				900m	0	75	2	G0657	ZB100
24	SG183	6	20M	MON	3.3	.26	TTL	4	6†	0	5	3.0n				900m	0	75	2	G0657	ZB100
25	RG90P	6	20M	MON	3.4	.20	TTL	8	15	0.0	5.0	11n			35m†	1.1	-55	125	1		M105k
26	RG91P	6	20M	MON	3.4	.20	TTL	8	7	0.0	5.0	11n			35m†	1.1	-55	125	1		M105k
27	RG92P	6	20M	MON	3.4	.20	TTL	8	12	0.0	5.0	11n			35m†	1.1	0	75	1		M105k
28	RG93P	6	20M	MON	3.4	.20	TTL	8	6	0.0	5.0	11n			35m†	1.1	0	75	1		M105k
29	SWG150	6	20M%	MON	3.5	.26	TTL	10	15	0.0	6.0				5.0mΔ	1.0	-55	125	1	G06104	CN3a
30	SWG151	6	20M%	MON	3.5	.26	TTL	10	7	0.0	6.0				5.0mΔ	1.0	-55	125	1	G06104	CN3a
31	SWG152	6	20M%	MON	3.5	.26	TTL	10	12	0.0	6.0				5.0mΔ	1.0	0	75	1	G06104	CN3a
32	SWG153	6	20M%	MON	3.5	.26	TTL	10	6	0.0	6.0				5.0mΔ	1.0	0	75	1	G06104	CN3a
33	SWG170	6	20M%	MON	3.5	.26	TTL	4	15	0.0	6.0				5.0mΔ	1.0	-55	125	2	G06105	CN3a
34	SWG171	6	20M%	MON	3.5	.26	TTL	4	7	0.0	6.0				5.0mΔ	1.0	-55	125	2	G06105	CN3a
35	SWG172	6	20M%	MON	3.5	.26	TTL	4	12	0.0	6.0				5.0mΔ	1.0	0	75	2	G06105	CN3a
36	SWG173	6	20M%	MON	3.5	.26	TTL	4	6	0.0	6.0				5.0mΔ	1.0	0	75	2	G06105	CN3a
37	SWG180	6	20M%	MON	3.5	.26	TTL	4	15	0.0	6.0				1.0m	1.0	-55	125	2		CN3a
38	SWG181	6	20M%	MON	3.5	.26	TTL	4	7	0.0	6.0				1.0m	1.0	-55	125	2		CN3a
39	SWG182	6	20M%	MON	3.5	.26	TTL	4	12	0.0	6.0				1.0m	1.0	0	75	2		CN3a
40	SWG183	6	20M%	MON	3.5	.26	TTL	4	6	0.0	6.0				1.0m	1.0	0	75	2		CN3a
41	GG955	6	20M	PCB	2.0%	.80*	TTL	4		0	5	13n			30m†	400m	0	70	6		CB⧄
42	NE806A	6	30M	MON	3.1	.20†	TTL	4				20nΔ				2.0	0	70	2	G06133a	TO116
43	SWG230	6	35M	MON	3.5	.26	TTL	10†	15	0.0	6.0	2.0n			28m	1.0	-55	125	4		
44	SWG231	6	35M	MON	3.5	.26	TTL	10†	7	0.0	6.0	2.0n			28m	1.0	-55	125	4		
45	SWG232	6	35M	MON	3.5	.26	TTL	10†		0.0	6.0	2.0n			28m	1.0	0	75	4		
46	SWG233	6	35M	MON	3.5	.26	TTL	10†		0.0	6.0	2.0n			28m	1.0	0	75	4		
47	SWG270	6	35M	MON	3.5	.26	TTL	8†		0.0	6.0	2.0n			6.7m	1.0	-55	125	2		
48	SWG271	6	35M	MON	3.5	.26	TTL	8†		0.0	6.0	2.0n			6.7m	1.0	-55	125	2		
49	SWG272	6	35M	MON	3.5	.26	TTL	8†		0.0	6.0	2.0n			6.7m	1.0	0	75	2		
50	SWG273	6	35M	MON	3.5	.26	TTL	8†		0.0	6.0	2.0n			6.7m	1.0	0	75	2		
51#	MMG230#1	6	40M	MON	1.7%	1.2*	TTL	10		0.0	5.0	2.0n			28m	1.0	-55	125		G06109	FP18
52#	MMG230#2	6	40M	MON	1.7%	1.2*	TTL	10		0.0	5.0	2.0n			28m	1.0	-55	125		G06109	M75
53#	MMG231#1	6	40M	MON	1.7%	1.2*	TTL	10		0.0	5.0	2.0n			28m	1.0	-55	125		G06109	FP18
54#	MMG231#2	6	40M	MON	1.7%	1.2*	TTL	10		0.0	5.0	2.0n			28m	1.0	-55	125		G06109	M75
55#	MMG232#1	6	40M	MON	1.7%	1.2*	TTL	10		0.0	5.0	2.0n			28m	1.0	0	75		G06109	FP18
56#	MMG232#2	6	40M	MON	1.7%	1.2*	TTL	10		0.0	5.0	2.0n			28m	1.0	0	75		G06109	M75
57#	MMG233#1	6	40M	MON	1.7%	1.2*	TTL	10		0.0	5.0	2.0n			28m	1.0	0	75		G06109	FP18
58#	MMG233#2	6	40M	MON	1.7%	1.2*	TTL	10		0.0	5.0	2.0n			28m	1.0	0	75		G06109	M75
59#	MMG270#1	6	40M	MON	1.7%	1.2*	TTL	4	11	0.0	5.0	2.0n			6.7m	1.0	-55	125	2	G06111	FP18
60#	MMG270#2	6	40M	MON	1.7%	1.2*	TTL	4	11	0.0	5.0	2.0n			6.7m	1.0	-55	125	2	G06111	M75
61#	MMG271#1	6	40M	MON	1.7%	1.2*	TTL	4	6	0.0	5.0	2.0n			6.7m	1.0	-55	125	2	G06111	FP18
62#	MMG271#2	6	40M	MON	1.7%	1.2*	TTL	4	6	0.0	5.0	2.0n			6.7m	1.0	-55	125	2	G06111	M75
63#	MMG272#1	6	40M	MON	1.7%	1.2*	TTL	4	9	0.0	5.0	2.0n			6.7m	1.0	0	75	2	G06111	FP18
64#	MMG272#2	6	40M	MON	1.7%	1.2*	TTL	4	9	0.0	5.0	2.0n			6.7m	1.0	0	75	2	G06111	M75
65#	MMG273#1	6	40M	MON	1.7%	1.2*	TTL	4	5	0.0	5.0	2.0n			6.7m	1.0	0	75	2	G06111	FP18
66#	MMG273#2	6	40M	MON	1.7%	1.2*	TTL	4	5	0.0	5.0	2.0n			6.7m	1.0	0	75	2	G06111	M75
67	SG270	6	40M	MON	1.7%	1.2*	TTL	4	11	0	5	1.0n			7.0m	1.0	-55	125	2	G06111	ZB100
68	SG271	6	40M	MON	1.7%	1.2*	TTL	4	6	0	5	1.0n			7.0m	1.0	-55	125	2	G06111	ZB100
69	SG272	6	40M	MON	1.7%	1.2*	TTL	4	9	0	5	1.0n			7.0m	1.0	0	75	2	G06111	ZB100
70	SG273	6	40M	MON	1.7%	1.2*	TTL	4	5	0	5	1.0n			7.0m	1.0	0	75	2	G06111	ZB100
71	MC1025L	6	80M	MON	-.75	-1.6	ECT	4†		8	0					175m	0	75	1	G0683b	TO116
72	PD9631-61	6,1		MON	1.7%	1.2*	TTL	10		0	5	2.0n			26m	1.0	-55	125	1	G06109	TO116
73	PD9631-69	6,1		MON	1.7%	1.2*	TTL	10		0	5	2.0n			26m	1.0	0	75	1	G06109	TO116
74	PD9631-71	6,1		MON	1.7%	1.2*	TTL	10		0	5	2.0n			26m	1.0	-55	125	1	G06109	TO116
75	PD9631-79	6,1		MON	1.7%	1.2*	TTL	10		0	5	2.0n			26m	1.0	0	75	1	G06109	TO116
76	PL9631-61	6,1		MON	1.7%	1.2*	TTL	10		0	5	2.0n			26m	1.0	-55	125	1	G06109	TO86
77	PL9631-69	6,1		MON	1.7%	1.2*	TTL	10		0	5	2.0n			26m	1.0	0	75	1	G06109	TO86
78	PL9631-71	6,1		MON	1.7%	1.2*	TTL	10		0	5	2.0n			26m	1.0	-55	125	1	G06109	TO86
79	PL9631-79	6,1		MON	1.7%	1.2*	TTL	10		0	5	2.0n			26m	1.0	0	75	1	G06109	TO86
80	SG230	6,1	40M	MON	1.7%	1.2*	TTL	10		0	5	2.0n			28m	1.0	-55	125	1	G06109	ZB100
81	SG231	6,1	40M	MON	1.7%	1.2*	TTL	10		0	5	2.0n			28m	1.0	-55	125	1	G06109	ZB100
82	SG232	6,1	40M	MON	1.7%	1.2*	TTL	10		0	5	2.0n			28m	1.0	0	75	1	G06109	ZB100
83	SG233	6,1	40M	MON	1.7%	1.2*	TTL	10		0	5	2.0n			28m	1.0	0	75	1	G06109	ZB100
84	GC10	6B	300k	PCB	8.0	0.0	DTL	4†	1		25	5.0n†			500m	700m	55	100	9	G0676	CB34
85	GH10	6B	1.0M	PCB	8.0	0.0	DTL	4†	1		25	5.0n†			1.1	700m	55	100	9	G0676	CB34
86	RD211	6M		MON			DTL	4		0	6						-55	125	2	G0644h	TO84
87	RD511	6M		MON			DTL	4		0	6						0	75	2	G0644h	TO84

9. SHIFT REGISTER

IN ORDER OF(1)SHIFT REGISTER(2)MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF SHIFT REG.	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	PROPAGATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG No	DRAWINGS OUTLINE Δ=MO
1	1134R			MON			RTL			0.0	5.0						-55	125	1	H043	CN40
2	2134R			MON			RTL			0.0	5.0						-55	125	1	H043	FP20
3	RD66AC		1.0M	MON	4.0	1.0	MOS	1	1	12	5.0				50m		-25	75			
4	RD16AC		2.0M	MON	4.0	1.0	MOS	1	1	12	5.0				50m		-55	125			
5	RD17		5.0M	MON	4.0	1.0	MOS	1	1	12	5.0				170m		-55	125			
6	RD18		5.0M	MON	4.0	1.0	MOS	1	1	12	5.0				190m		-55	125			
7	RD19		5.0M	MON	4.0	1.0	MOS	1	1	12	5.0				210m		-55	125			
8	RD20		5.0M	MON	4.0	1.0	MOS	1	1	12	5.0				175m		-55	125			
9	RD67		5.0M	MON	4.0	1.0	MOS	1	1	12	5.0				170m		-25	75			
10	RD68		5.0M	MON	4.0	1.0	MOS	1	1	12	5.0				190m		-25	75			
11	RD69		5.0M	MON	4.0	1.0	MOS	1	1	12	5.0				210m		-25	75			
12	RD70		5.0M	MON	4.0	1.0	MOS	1	1	12	5.0				175m		-25	75			
13	RD-A1		5.0M	MON	4.0	1.0	MOS	1	1	12	5.0				75m		-55	125			
14	CT605-3	1	250k	PCB	-3.0	-11	RCT	5		12	12	800n	1.0u		325m	1.5	-45	65	3		CB16
15	4202B	1	500k	PCB	0.0	-3.0	RCT	5	14	15	10	70n	80n	80n	1.8	500m	-20	55	2		CB30
16	4205	1	1.0M	PCB	0.0	-3.0	RCT	9	14	15	10		100n	180n	2.3	500m	-20	55	2	H018	CB30
17	TA5459	1	2.0M	MOS	10	.01†	TTL		50	0	10	200n	1.0u	1.0u	100u%	4.0	-55	125			M135
18#	T160D2	1	20M	MON	1.7%	.90*		7		0.0	5.0	22nΔ			300m†		-55	125	2	H0115	M200
19#	T160D1	1	20M	MON	1.8%	.85*		7		0.0	5.0	22nΔ			300m†		0	75	2	H0115	M200
20	SB31	1,2,3	5.0M	PCB	3.0	0.0	DTL	15	18	0	4.0	50n	45n	25n	1.0	4.0	-40	70	9		CB10a
21	MEM3005PP	1,3	1.0M	MOS	-2.0*	-10%	TTL	8		30	.30				70	1.0 *	-55	85	1	H0111	FP47
22	682	1,3	5.0MΔ	PCB	2.0%	.45*	DTL	8	9	0.0	5.0	70nΔ			600m	1.4	0	70	2	H0110	CB50
23	DX52	1,4	1.5M	PCB	8.0	0.0	DTL	1	5	25	25	60n	40n	20n	1.8	3.5	0	100	12	H019	CB34
24	PL4R01	2	100kΔ	MON	-9.0%	-3.0*	TTL	13		30	0.0				75m		-55	125	1	H024	FP34
25	4XLM	2	200k	PCB	-10	0.0	RCT			12	12				600m		0	50	4		CB19
26	ISR2-.2	2	200k	PCB	-10	0.0		22	10	30	6.0	600n	1.0u	500n	4.0	1.5	0	55	1		
27	CD4015	2	1.0M%	MOS	0.0	10	TTL	6	50	0.0	10	250n	15u	15u	100u	4.5 Δ	-55	125			FP⧄
28	4216	2	1.0M	PCB	0.0	-3.0	RCT	6	9	15	10		80n	120n	1.6	500m	-20	55	4	H021	CB30
29	4221	2	1.0M	PCB	0.0	-3.0	RCT	6	9	15	10		80n	120n	2.3	500m	-20	55	6	H023	CB30
30	4XLH	2	1.0M	PCB	-10	0.0	RCT			12	12				850m		0	50	4		CB19
31	9050	2	5.0M	PCB	3.0	0.0	TTL	11	8	0	5.0	19n	5n	5n	575m	900m	0	70	2	H0214	CB54
32	SB32	2	5.0M	PCB	3.0	0.0	DTL	15	2	0.0	4.0	50n	45n	25n	1.0	4.0	-40	70	9		
33	DM8590D	2	20M	MON	2.0%	.80*	TTL	10	3	0	7.0	25n†			240m	1.0	0	70	1		
34	4231	2,3	1.0M	PCB	0.0	-3.0	RCT	6	9	15	10		130n	230n	2.0	500m	-20	55	4	H022	CB30
35	MC08	2,3	1.0M	PCB	0.0	-6.2	DTL	18		18	18	50n	100n	100n	2.5	2.5 *	0	55	1		CB25
36	MC09	2,3	1.0M	PCB	0.0	-6.2	DTL	23		18	18	50n	100n	80n	4.7	2.5 *	0	55	1		CB25
37	SR20	2,3,4	200k	PCB	0.0	-6.0	DTL	6	6	18	12	1.2uΔ	500n†	800n†	1.0	1.5	-20	55	4	H027	CB13a
38	SR30	2,3,4	1.0M	PCB	0.0	-6.0	DTL	6	6	18	12	250nΔ	100n†	150n†	1.7	1.5	-20	55	4	H027	CB13a
39	SR130	2,3,4	1.0M	PCB	6.0	0.0	DTL	8	12	12	18				1.7	1.5	-55	100	1	H026	CB13a
40	SR35	2,3,4	5.0M	PCB	0.0	-6.0	DTL	6	4	18	12	50nΔ	25n†	50n†	2.4	1.5 *	-20	55	4	H027	CB13a
41#	M53294P	2,4F	10MØΔ	MON	2.0%	.80*	TTL	13	10	0	7.0	25n%			175m†	1.0 Δ	0	75	1	H0217	M153b
42	PD7494	2,4F	10MØΔ	MON	2.0%	.80*	TTL	13	10	0.0	7.0	25n%				175m	0	75	1	H0219	TO116
43#	27710-01-2-842	3	40k	PCB	0.0	-12				12	12	5.8u	1.0u	1.5u	3.0	4.0	0	50	6		
44	PL4R02	3	100kΔ	MON	-9.0%	-3.0*	TTL	11		30	0.0				75m		-55	125	1	H0314	FP34
45	GSR3-.2	3	200k	PCB	-10	0.0	DTL	9	10	12	6.0	200n	1.0u	500n	660m	2.0	0	55		H0311	CB15
46	ISR1-.2	3	200k	PCB	-10	0.0		7	10	30	6.0	600n	1.0u	500n	4.0	1.5	0	55	1	H0316	
47	ISR3-.2	3	200k	PCB	-10	0.0		8	10	30	6.0	600n	1.0u	500n	2.8	1.5	0	55	2	H0317	
48	ISR4-.2	3	200k	PCB	-10	0.0		19	10	30	6.0	600n	1.0u	500n	8.9	1.5	0	55	2	H0318	
49	ISR5-.2	3	200k	PCB	-10	0.0		17	10	30	6.0	600n	1.0u	500n	7.7	1.5	0	55	2	H0319	
50	CT610-3	3	250k	PCB	-3.0	-11	RCT	4		12	12	400n	1.0u		330m	1.5	-45	65	3	H032	CB16
51	MEM507	3	500k	MON	-12	0.0		2		28	0.0								1	H0310	
52	4202	3	500k	PCB	0.0	-3.0	RCT	11	14	15	10	70n	80n	80n	1.8	500m	-20	55	2	H039	CB30
53	4202A	3	500k	PCB	0.0	-3.0	RCT	11	14	15	10	70n	80n	80n	1.8	500m	-20	55	1	H039a	CB30
54	MEM3005SP	3	1.0M	MOS	-2.0*	-10%	TTL	3		30	.30				53m	1.0 *	-55	85	1	H0323	TO87
55	MM413	3	1.0M	MOS	-7.0%	-2.5*	TTL	1	5	6.0	10		50n	50n	80	1.0m	-55	125	1		
56	MM513	3	1.0M	MOS	-7.0%	-2.5*	TTL	1	5	6.0	10		50n	50n	80	1.0m	-25	70	1		
57	MC05	3	1.0M	PCB	0.0	-6.2	DTL	26		18	18	50n	100n	100n	4.8	2.5 *	0	55	1		CB25
58	GSR3-1	3	1.0M	PCB	-10	0.0	DTL	9	9	12	6.0	100n	250n	200n	900m	2.0	0	55		H0311	CB15
59	GSR3-5	3	5.0M	PCB	-10	0.0	DTL	9	14	12	6.0	60n	50n	50n	1.0	1.5	0	55		H0311	CB15
60	DM8570D	3	20M	MON	2.0%	.80*	TTL	2	8	0	7.0	25n†			240m	1.0	0	70	1		
61	MC18	3,2	1.0M	PCB	0.0	-6.2	DTL	12	8	18	18	40n	100n	100n	2.1	2.5	0	55	1		CB25
62	MS18	3,2	1.0M	PCB	6.2	0.0	DTL	12	8	18	18	40n	100n	100n	2.1	2.5	-30	100	1		CB25
63	1048	3,4	200k	PCB	-6.0	0.0		2		18	18				500m		0	55		H035	
64	4223	3,4	1.0M	PCB	0.0	-3.0	RCT	4	9	15	10		90n	160n	2.0	500m	-20	55	10	H038	CB30
65	4226	3,5	1.0M	PCB	0.0	-3.0	RCT	6	9	15	10		100n	180n	2.9	500m	-20	55	4	H037	CB30
66	4228	3,5	1.0M	PCB	0.0	-3.0	RCT	6	6	15	10		150n	140n	4.3	500m	-20	55	3	H036	CB30d
67	42281	3,5	1.0M	PCB	0.0	-3.0	RCT	7	6	15	10		150n	140n	2.4	500m	-20	55	1	H036a	CB30d
68	NC1013	4		MON	.77%	.69*	RTL	4	5†	0.0	8.0				12m	540mΔ	-55	125	1	H0410	CN29
69	NC2013	4		MON	.77%	.69*	RTL	4	5†	0.0	8.0				12m	540mΔ	0	100	1	H0410	CN29
70	NC3013	4		MON	.77%	.69*	RTL	4	5†	0.0	8.0				12m	540mΔ	15	55	1	H0410	CN29
71	SN17913	4		MON	.81*	.20*	RTL	4	3	0.0	5.0		150n	50n	18m		-55	125	1	H0412	
72	PL949	4		MON	2.0	1.1	DTL	2		0.0	5.0						-55	125	4		TO86
73	PL9949	4		MON	2.0	1.1	DTL	2		0.0	5.0						-55	125	4		TO86
74	RD01B	4		MOS	-3.5*	-9.0%		3		30	.30					1.0	-55	125	1	H0423	CN61
75	RD02C	4		MOS	-3.5*	-9.0%		3		30	.30					1.0	-55	125	2	Ko747c	FP34
76	B691	4	1.0k	PCB	0.0	-6.0	DTL	1	24	12	6.0	500n	200n	200n	120m	2.0	-15	60	1		CB22
77	GA329	4	100k	PCB	-6.0	0.0	RCT		3	12	6.0	800n	600n	1.4u	1.7	1.0 *	-55	71	4		CB16
78	SCL5130	4	200kΔ	MOS	-4.5%	-1.0*		2		6.0	0.0				100n†	1.0 Δ	-55	125	1	H0445	TO100
79	CT606-2	4	250k	PCB	-3.0	-11	RCT	8		12	0.0	400n	1.0u		156m	1.5	-45	65	2		CB16
80	MEM501	4	500k	MON	-12	0.0		1		28	0.0		100n	100n	150m	3.0	-55	125	3	H046	CN49
81	MEM501F	4	500k	MON	-12	0.0		1		28	0.0				150m	3.0	-55	125	3	H046	FP⧄
82	MEM3050	4	500kΔ	MOS	-2.0*	-10%	TTL	3		30	.30				10m	1.0 *	-55	85	2	H0422	CN58
83	PL5R32C	4	500kΔ	MOS	-9.0%	-4.0*	TTL	4		16	0.0						0	70	2	H0413	TO100
84	PL5R100C	4	500kΔ	MOS	-9.0%	-4.0*		3		25	0.0						0	70	1	H0485	TO100
85	PL5208	4	1.0MΔ	MON	-4.0*	-8.0%	TTL	3		30	.30					1.0 *	-55	125	2	H049f	ZB154
86	PL5216	4	1.0MΔ	MON	-4.0*	-8.0%	TTL	3		30	.30					1.0 *	-55	125	2	H049c	ZB154
87	PL5220	4	1.0MΔ	MON	-4.0*	-8.0%	TTL	3		30	.30					1.0 *	-55	125	1	H049e	ZB154
88	PL5232	4	1.0MΔ	MON	-4.0*	-8.0%	TTL	3		30	.30				48m	1.0 *	-55	125	1	H049j	ZB154
89	PL5R40C	4	1.0MΔ	MON	-9.0%	-4.0*	TTL	3		25	.30				30m	1.0 *	-55	125	2	H049b	TO100
90	MEM521	4	1.0M	MON	-12	0.0		1		28	0.0				150m		-55	125	3	H047	CN49
91	MEM4090	4	1.0M	MON	-12	0.0		1		20	0.0				150m				2	H048	
92	MEM3016-2	4	1.0M	MOS	-2.0*	-10%	TTL	3		30	.30				170m	1.0 *	-55	85	2		CN58
93	MEM3020	4	1.0M	MOS	-2.0*	-10%	TTL	3		30	.30				132m	1.0 *	-55	85	1		TO78
94	MEM3032	4	1.0M	MOS	-2.0*	-10%	TTL	2		30	.30				238m	1.0 *	-55	85	6	H0421	FP47
95	RD03B	4	1.0M%	MOS	-3.5*	-9.0%		3		30	.30					1.0	-55	125	1	K0747d	CN61
96	RD04C	4	1.0M%	MOS	-3.5*	-9.0%		3		30	.30					1.0	-55	125	2	K0747f	FP34
97	RD04F	4	1.0M%	MOS	-3.5*	-9.0%		3		30	.30					1.0	-55	125	2	K0747e	CN18
98	PL5R64X4LVC	4	1.0MΔ	MOS	-4.0%	-1.5*		8	4								0	70	4	H0486	M200a
99	PL5R100X2LVC	4	1.0MΔ	MOS	-4.0%	-1.5*		2	2	12	5.0						0	70			TO100
100	SCL5132	4	1.0MΔ	MOS	-8.0%	-4.0*		2		12	0.0				600n†	4.0 Δ	-55	125	1	H0445	TO100
101	PL5R64X4C	4	1.0MΔ	MOS	-9.0%	-3.0*		8	4							1.0	0	70	4	H0486	M200a
102	PL5R100X2C	4	1.0MΔ	MOS	-9.0%	-3.0*		2	2	25	0.0					1.0	0	70			TO100
103	PL5R198C	4	1.0MΔ	MOS	-9.0%	-3.0*		3	3	14	0.0	500nΔ				1.0	0	70	3	H0453h	TO100
104	PL5R512C	4	1.0MΔ	MOS	-9.0%	-3.0*		1	1	25	0.0					1.0	0	70			TO100
105	MEM3100A2	4	1.0MΔ	MOS	-10*	-2.0*	TTL	2		27	0.0	3			336m	1.0	-55	85	2	H0439	FP48
106	MEM3128-2	4	1.0MΔ	MOS	-10*	-2.0*	TTL	3		27	0.0	3			224m	1.0	-55	85	2	H0440	M105f
107	MEM3128-2F	4	1.0MΔ	MOS	-10*	-2.0*	TTL	3		27	0.0	3			224m	1.0	-55	85	2	H0440	TO87
108	MEM3100	4	1.0M	MOS	-24%	-2.0*	TTL	2		30	.30		100n	100n			-55	85	2	H0414a	CN58
109	MP224	4	2.0M	MON	6.5	-10	MOS	1		30	0	12u			50m		0	55		H0417	TO78

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

9. SHIFT REGISTER

IN ORDER OF(1)SHIFT REGISTER(2)MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TYPE OF SHIFT REG.	2 MAX OPER-ATING FREQ. (Hz)	3 PRO-CESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG (V)	POWER SUPPLY SPAN POS (V)	PROPA-GATION DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG No	DRAWINGS OUT-LINE Δ=MO
1	PL5100	4	2.0M	MON	-8.0	-4.0	TTL	1	1	27	0.0					1.0	-55	125	1	H049	TO100
2	PL5120	4	2.0M	MON	-8.0	-4.0	TTL	1	1	27	0.0					1.0	-55	125	2	H049	TO100
3	PL5150	4	2.0M	MON	-8.0	-4.0	TTL	1	1	27	0.0					1.0	-55	125	2	H049	TO100
4	PL5172	4	2.0M	MON	-8.0	-4.0	TTL	1	1	27	0.0					1.0	-55	125	2	H049	TO100
5	3320	4	2.0MΔ	MON	-10%	-2.0*		6		30	.30						-55	85	1	H0414b	TO100
6	PL5P256	4	2.0M	MOS	-3.0*	-9.0%		1		27	0					1.0	-55	125	1	H0431	TO100
7	PL5R128	4	2.0M	MOS	-3.0*	-9.0%		1		25	0	60n				1.0	-55	125	2	H0430	TO100
8	PL5R128C	4	2.0M	MOS	-3.0*	-9.0%		1		25	0	60n				1.0	0	70	2	H0430	TO100
9	PL5R250	4	2.0M	MOS	-3.0*	-9.0%		1		27	0	60n				1.0	-55	125	1	H0431	TO100
10	PL5R250C	4	2.0M	MOS	-3.0*	-9.0%		1		27	0	60n				1.0	0	70	1	H0431	TO100
11	PL5R256	4	2.0M	MOS	-3.0*	-9.0%		1		27	0	60n				1.0	0	70	1	H0431	TO100
12	PL5R96C	4	2.0MΔ	MOS	-9.0%	-3.0*		4		26	0.0	190nΔ			468m		0	70	1	H0465	TO100
13	PL5R256C	4	2.0MΔ	MOS	-9.0%	-3.0*		1	1	25	0.0					1.0	0	70	1	H0479	TO100
14	PL5R256X2C	4	2.0MΔ	MOS	-9.0%	-3.0*		2	2	25	0.0					1.0	0	70			TO100
15	MEM3064LR	4	2.0MΔ	MOS	-10*	-2.0*	TTL	2		27	0.0	250n			360m	1.0	-55	85	2	H0437	M105f
16	MEM3064S	4	2.0MΔ	MOS	-10*	-2.0*	TTL	3		27	0.0	250n			360m	1.0	-55	85	1	H0438	M105f
17	MEM3064SC	4	2.0MΔ	MOS	-10*	-2.0*	TTL	3		27	0.0	250n			360m	1.0	-55	85	1	H0438	CN58
18	UC7310	4	2.5M	MOS	3.0%	.60%		1	1	15	5.0	90	70	70	1.2k	1.0k	0	70		H0416	M146
19	UC7315	4	2.5M	MOS	3.0%	.60%		1	1	15	5.0	90	70	70	525	1.0k	0	70		H0416	M151
20	UC7320	4	2.5M	MOS	3.0%	.60%		1	1	15	5.0	90	70	70	500	1.0k	0	70		H0416	M151
21	551A	4	4.0MØ	MON	4.0%	.25%	TTL			0.0	6.0		80n†	40n†		800mΔ	-55	155		H0411	FP26a
22	CDL5300N	4	5.0M	MOS	9.0%	4.0%	CDL	3		0	18					2.0	-55	125	1		TO75
23	CDL5300P	4	5.0M	MOS	9.0%	4.0%	CDL	3		0	18					2.0	-55	125	1		TO75
24	CDL5301N	4	5.0M	MOS	9.0%	4.0%	CDL	3		0	18					2.0	-55	125	2		TO73
25	CDL5301P	4	5.0M	MOS	9.0%	4.0%	CDL	3		0	18					2.0	-55	125	2		TO73
26	CDL5305N	4	5.0M	MOS	9.0%	4.0%	CDL	3		0	18					2.0	-55	125	1		TO75
27	CDL5305P	4	5.0M	MOS	9.0%	4.0%	CDL	3		0	18					2.0	-55	125	1		TO75
28	CDL5306N	4	5.0M	MOS	9.0%	4.0%	CDL	3		0	18					2.0	-55	125	2		TO73
29	CDL5306P	4	5.0M	MOS	9.0%	4.0%	CDL	3		0	18					2.0	-55	125	2		TO73
30	PL5P256A	4	5.0M	MOS	-3.0*	-9.0%		1		27	0	60n				1.0	-55	125	1	H0431	TO100
31	PL5R128A	4	5.0M	MOS	-3.0*	-9.0%		1		25	0	60n				1.0	-55	125	2	H0430	TO100
32	PL5R128AC	4	5.0M	MOS	-3.0*	-9.0%		1		25	0	60n				1.0	0	70	2	H0430	TO100
33	PL5R250A	4	5.0M	MOS	-3.0*	-9.0%		1		27	0	60n				1.0	-55	125	1	H0431	TO100
34	PL5R250AC	4	5.0M	MOS	-3.0*	-9.0%		1		27	0	60n				1.0	0	70	1	H0431	TO100
35	PL5R256AC	4	5.0M	MOS	-3.0*	-9.0%		1		27	0	60n				1.0	0	70	1	H0431	TO100
36	RD06B	4	5.0M%	MOS	-3.5*	-9.0%		3		30	.30					1.0	-55	125	1	K0747d	CN61
37	SB34	4	5.0M	PCB	3.0	0.0	DTL	3	2	0	4.0	35n	25n	20n	1.2	900m	0	70	64		CB10a
38	CDL5302N	4	10M	MOS	9.0%	4.0%	CDL	3		0	18					2.0	-55	125	1		TO75
39	CDL5302P	4	10M	MOS	9.0%	4.0%	CDL	3		0	18					2.0	-55	125	1		TO75
40	CDL5303N	4	10M	MOS	9.0%	4.0%	CDL	3		0	18					2.0	-55	125	2		TO73
41	CDL5303P	4	10M	MOS	9.0%	4.0%	CDL	3		0	18					2.0	-55	125	2		TO73
42	CDL5307N	4	10M	MOS	9.0%	4.0%	CDL	3		0	18					2.0	-55	125	1		TO75
43	CDL5307P	4	10M	MOS	9.0%	4.0%	CDL	3		0	18					2.0	-55	125	1		TO75
44	CDL5308N	4	10M	MOS	9.0%	4.0%	CDL	3		0	18					2.0	-55	125	2		TO73
45	CDL5308P	4	10M	MOS	9.0%	4.0%	CDL	3		0	18					2.0	-55	125	2		TO73
46	RD09B	4	10M%	MOS	-3.5*	-9.0%		3		30	.30					1.0	-55	125	1	K0747d	CN61
47	MEM3100AC	4F	1.0MØ	MOS	-2.0*	-10%	TTL	3		27	0	250n	25n	25n			-55	85	2		CN25a
48	MEM3100AF	4F	1.0MØ	MOS	-2.0*	-10%	TTL	3		27	0	250n	25n	25n			-55	85	2		M105f
49	MEM3100C	4F	1.0MØ	MOS	-2.0*	-10%	TTL	2		27	0	250n	25n	25n			-55	85	2	H0414a	CN54a
50	MEM3100F	4F	1.0MØ	MOS	-2.0*	-10%	TTL	2		27	0	250n	25n	25n			-55	85	2	H0414a	M105
51	MEM3128C	4F	1.0MØ	MOS	-2.0*	-10%	TTL	3		27	0	250n	25n	25n			-55	85	1		CN54a
52	MEM3128F	4F	1.0MØ	MOS	-2.0*	-10%	TTL	3		27	0	250n	25n	25n			-55	85	1		M105f
53	MEM3032D2C	4F	2.0MΔ	MOS	-2.0*	-10%	TTL	2		24	0						-55	85	1	H0414c	CN54a
54	MEM3032D2F	4F	2.0MΔ	MOS	-2.0*	-10%	TTL	2		24	0						-55	85	1	H0414c	TO87
55	MEM3064-2B	4F	2.0MΔ	MOS	-2.0*	-10%	TTL	2		24	0						-55	85	2	H0414d	FP48
56	MEM3032D5C	4F	5.0MΔ	MOS	-2.0*	-10%	TTL	2		24	0						-55	85	1	H0414c	CN54a
57	MEM3032D5F	4F	5.0MΔ	MOS	-2.0*	-10%	TTL	2		24	0						-55	85	1	H0414c	TO87
58	PD7491A	4F	18M%Δ	MON	2.0%	.80*	TTL	3	10	0.0	7.0	40nΔ					0	75	1	H0415	TO116
59#	9959-9-6B	5		MON			RTL	5		0.0	3.8				135m†		0	75	1	H055	M200
60	US0108B	5		MON	2.0%	.30†*	RCT	1	5	0.0	8.0	800p	330n	1.2u	15m		-55	125	1	J0555	FP23
61	IFF2-.2	5	200k	PCB	-10	0.0		4		30	6.0		1.0m	500u	4.4	1.5	0	55	3	H054	
62	GSR2-.2	5F	200k	PCB	-10	0.0	DTL	12	10	12	6.0	200n	1.0u	500n	84m	2.0	0	55	2	H052	CB15
63	GSR2-1	5F	1.0M	PCB	-10	0.0	DTL	12	9	12	6.0	100n	250n	200n	99m	2.0	0	55	2	H052	CB15
64	GSR2-5	5F	5.0M	PCB	-10	0.0	DTL	12	14	12	6.0	60n	50n	50n	1.1	1.5	0	55	2	H052	CB15
65	4290	6	1.0M	PCB	0.0	-3.0	RCT	3	100	15	10		1.0u	2.0u	1.7	500m	-20	55	1	H062	CB30d
66	SR802	6	5.0M	PCB	2.2%	7.0*	DTL	7	10	0	5.0	40n			800m	400m	0	75	2		CBØ
67	SR5408	6	5.0M	PCB	2.6%	.70*	DTL	11	8	0	5.0	90nΔ			600m	1.0	0	70	2	H067	CB56
68	SR902	6	14M	PCB	2.0%	.80*	TTL	6	10	0	5.0	50n			1.8 †	400m	0	70	2		CBØ
69#	9300-1	6	15M	MON	2.4%	.40*Δ	TTL	9	6	0	5.0				300m	1.0	-55	125	1		
70#	9300-9	6	15M	MON	2.4%	.45*Δ	TTL	9	6	0	5.0				300m	1.0	-55	125	1		
71	SN7495	6	31M%	MON	2.0%	.70*	TTL	8	10	0.0	7.0	25n			325m†	1.0 Δ	0	70	4	H061	TO84
72	PD7495	6F,G	31M%	MON	2.0%	.80*	TTL	8	10	0.0	7.0	25n%				250m†	0	75	1	H061	TO116
73	PD7496	6F,G	31M%	MON	2.0%	.80*	TTL	9	10	0.0	7.0	25n%				240m†	0	75	1	H061	M153
74	SN7495F	6F,G	31M%	MON	2.0%	.80*	TTL	8	10	0	7.0	35nΔ			250m†		0	70	1	H061	TO84

10. TIME DELAY

IN ORDER OF(1)TIME DELAY(2)MAX OPER FREQ (3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TIME DELAY TYPE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	MIN. DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	SSD15		25k	3DM	6.0	0.0	RTL	1	4	12	12	200n	2.0u	500n	100m	1.0	0	65			
2	B664	1	1.0k	PCB	0.0	-6.0	DTL	1	4	12	6.0				180m	2.0	-15	60	1	J012	CB22
3	B665	1	1.0k	PCB	0.0	-6.0	DTL	1	4	12	6.0				220m	2.0	-15	60	1	J013	CB22
4	22338	1	1.0M							12	12	10m	80n	80n			0	55	1		CB42
5	A22266	1	1.0M							12	12	5.0m	80n	80n			0	55	1		CB43
6	A22271	1	1.0M							12	12	1.5m					0	55	1		CB45
7	A22272	1	1.0M							12	12	4.0m					0	55	1		CB40
8	A22286	1	1.0M							12	12	2.0m	80n	80n			0	55	1		CB41
9	A22467	1	1.0M							12	12	1.0m	80n	80n			0	55	1		CB44
10	A22541	1	1.0M									1.0m	80n	80n			-54	71	1		CB44
11	A22281	1	1.0M		-6.0					12	12	2.0m	150n	150n			0	50	1		CB45
12	MC06	1	1.0M	PCB	0.0	-6.2	DTL	10		18	18		100n	100n	5.7	2.5 *	0	55	1		CB25
13	SS210	1	1.0MΔ	PCB	0.0	-11		2	12	12	6.0				460m		-10	55	1	J015	CB33
14	GDL1	1FG	1.0M	PCB	-10	0.0	DTL	8	9	12	6.0		250m	200n	1.6	1.5	0	55	1	J011	CB15
15	TD335	2	5.0	MOH	6.3	0.0	DTL	4	16	0.0	6.0	6.0n			900m		0	55	11	J02-1	CB13
16	1310	2G	5.0M	PCB	-3.0	0.0	DCT	1Δ	10	0.0	10	70n			21m	500m	-20	55	1	J021	CB30
17	1311	2G	5.0M	PCB	-3.0	0.0	RTL	1	10	0.0	10	70n			20m	500m	-20	55	2	J022	CB30
18	1316	2G	5.0M	PCB	-3.0	0.0	RTL	1	10	0.0	10	70n			40m	500m	-20	55	6	J023	CB30
19	6310	2G	10M	PCB	-3.0	0.0	RTL	1Δ	10	0.0	10	27n			21m	500m	-20	55	1	J024	CB30
20	6311	2G	10M	PCB	-3.0	0.0	RTL	1Δ	10	0.0	10	27n			20m	500m	-20	55	2	J025	CB30
21	9070	3	5M		3.0	0.0	TTL	4	6	20	20	20n	6n	22n	980m	900m	0	70	1	J032	CB54
22	MIC305-1A	4					CTL	2	10	0.0	4.0	100n			30m	200m	-55	125	1		TO89
23	MIC305-1B	4					CTL	2	10	0.0	4.0	100n			30m	200m	-55	125	1		TO86
24	MIC305-1C	4					CTL	2	10	0.0	4.0	100n			30m	200m	-55	125	1		CN17
25	MIC305-2A	4					CTL	2	10	0.0	4.0	100n			30m	200m	0	100	1		TO89
26	MIC305-2B	4					CTL	2	10	0.0	4.0	100n			30m	200m	0	100	1		TO86
27	MIC305-2C	4					CTL	2	10	0.0	4.0	100n			30m	200m	0	100	1		CN17
28	MIC305-3A	4					CTL	2	10	0.0	4.0	100n			30m	200m	15	55	1		TO89
29	MIC305-3B	4					CTL	2	10	0.0	4.0	100n			30m	200m	15	55	1		TO86
30	MIC305-3C	4					CTL	2	10	0.0	4.0	100n			30m	200m	15	55	1		CN17
31#	9601-1-3L	4		MON	1.7%	.90*	TTL	4	6	0.0	5.0	45n			200m		-55	125	1	J0438	FP47a
32#	9601-1-6A	4		MON	1.7%	.90*	TTL	4	6	0.0	5.0	45n			200m		-55	125	1	J0438	M157
33#	9601-1-6B	4		MON	1.7%	.90*	TTL	4	6	0.0	5.0	45n			200m		-55	125	1	J0438	M153a
34#	T118B1-16	4		MON	1.7	1.4	TTL	4		0.0	5.0	50nΔ			100m%	400m	0	75	1	J0438	M200
35#	T118D1-16	4		MON	1.7	1.4	TTL	4		0.0	5.0	50nΔ			100m%	400m	0	75	1	J0438	M200
36#	T118D2-16	4		MON	1.7	1.4	TTL	4	10	0.0	5.0	50nΔ			125m%	400m	-55	125	1	J0438	M200
37#	9601-9-3L	4		MON	1.8%	.85*	TTL	4	8	0.0	5.0	45n			200m		0	7	1	J0438	FP47a
38#	9601-9-6A	4		MON	1.8%	.85*	TTL	4	8	0.0	5.0	45n			200m		0	7	1	J0438	M157
39#	9601-9-6B	4		MON	1.8%	.85*	TTL	4	8	0.0	5.0	45n			200m		0	7	1	J0438	M153a
40	PD9941-51	4		MON	2.5	.40†*	DTL	3Δ		0.0	8.0	40n%Δ	20n	20n	180m	1.0	-55	125	1	J0433a	TO116
41	PD9941A51	4		MON	2.5	.40†*	DTL	3Δ		0.0	8.0	40n%Δ	20n	20n	180m	1.0	-55	125	1	J0433b	TO116
42	PD9951-51	4		MON	2.5%	.40*†	DTL	3Δ		0.0	8.0	40n%Δ	20n	20n	170m	1.0	-55	125	1	J0545	TO116
43	PD9951A51	4		MON	2.5	.40†*	DTL	3Δ		0.0	8.0	40n%Δ	20n	20n	180m	1.0	-55	125	1	J0429	TO116
44	PL9941-51	4		MON	2.5	.40†*	DTL	3Δ		0.0	8.0	40n%Δ	20n	20n	180m	1.0	-55	125	1	J0433a	TO86
45	PL9941A51	4		MON	2.5	.40†*	DTL	3Δ		0.0	8.0	40n%Δ	20n	20n	180m	1.0	-55	125	1	J0433b	TO86
46	PL9951-51	4		MON	2.5%	.40*†	DTL	3Δ		0.0	8.0	40n%Δ	20n	20n	170m	1.0	-55	125	1	J0545	TO86
47	PL9951A51	4		MON	2.5	.40†*	DTL	3Δ		0.0	8.0	40n%Δ	20n	20n	180m	1.0	-55	125	1	J0429	TO86
48	NE8828A	4		MON	3.1	.30†	DTL	4		0	6.0	50nΔ			170m		0	75	2	J0434	TO116
49	NE8828J	4		MON	3.1	.30†	DTL	4		0	6.0	50nΔ			170m		0	75	2	J0434	TO88
50	SE8828A	4		MON	3.1	.30†	DTL	4		0	6.0	50nΔ			170m		-55	125	2	J0434a	TO116
51	SE8828J	4		MON	3.1	.30†	DTL	4		0	6.0	50nΔ			170m		-55	125	2	J0434a	TO88
52	PD9941-59	4		MON	3.2	.40†*	DTL	3Δ		0.0	8.0	40n%Δ	20n	20n	180m	1.0	0	75	1	J0433a	TO116
53	PD9941A59	4		MON	3.2	.40†*	DTL	3Δ		0.0	8.0	40n%Δ	20n	20n	180m	1.0	0	75	1	J0433b	TO116
54	PD9951A59	4		MON	3.2	.40†*	DTL	3Δ		0.0	8.0	40n%Δ	20n	20n	180m	1.0	0	75	1	J0429	TO116
55	PL9941-59	4		MON	3.2	.40†*	DTL	3Δ		0.0	8.0	40n%Δ	20n	20n	180m	1.0	0	75	1	J0433a	TO86
56	PL9941A59	4		MON	3.2	.40†*	DTL	3Δ		0.0	8.0	40n%Δ	20n	20n	180m	1.0	0	75	1	J0433b	TO86
57	PL9951A59	4		MON	3.2	.40†*	DTL	3Δ		0.0	8.0	40n%Δ	20n	20n	180m	1.0	0	75	1	J0429	TO86
58#	9941-9-3I	4		MON	3.2%	.45†*	DTL	4Δ		0.0	5.0	40nΔ			54m		0	75	1	J0433a	FP28b
59#	9941-9-6A	4		MON	3.2%	.45†*	DTL	4Δ		0.0	5.0	40nΔ			54m		0	75	1	J0433a	M157
60	PD9951-59	4		MON	3.2%	.45*†	DTL	3Δ		0.0	8.0	40n%Δ	20n	20n	180m	1.0	0	75	1	J0545	TO116
61	PL9951-59	4		MON	3.2%	.45*†	DTL	3Δ		0.0	8.0	40n%Δ	20n	20n	180m	1.0	0	75	1	J0545	TO86
62	PM9951-59	4		MON	3.2%	.45*†	DTL	3Δ		0.0	8.0	40n%Δ	20n	20n	180m	1.0	0	75	1	J0545	TO116
63	EM2506	4	25k	3DM	0.0	-6.0	DTL	3	3	12	6.0	180n	300n	1.0u	255m	2.0	-55	71	1	J0419	M62c
64	SS215	4	25k	3DM	0.0	-6.0	RCT	1	4	12	12	250n	400n	2.5u	180m	1.0	-54	71	1	J041	M2
65	T166	4	25k	3DM	-3.0	-11	RCT	2				400n	500n		84m		-45	65	1	J043	M17
66	T167	4	25k	3DM	-3.0	-11		2				400n	200n		66m		-45	65	1	J043	M17
67	2SSM	4	35k	PCB	-10	0.0				12	12				450m		0	50	2	J048	CB19
68	MOS31-62	4	50k	PCB	0.0	-6.0				12	12						0	50	1		CB26
69	4SSM	4	70k	PCB	-10	0.0	RCT			12	12				600m		0	50	4	J0521	CB19
70	G306	4	100k	PCB	0.0	-6.0			3	0	6.0	800n	600n	1.4u	340m	1.0 *	-55	71	1	J0436	CB16
71	G330	4	100k	PCB	0.0	-6.0			3			800n	600n	1.4u	1.3	1.0 *	-55	71	4		CB16
72	GA306	4	100k	PCB	-6.0	0.0			3	0.0	6.0	800n	600n	1.4u	340m	1.0 *	-55	71	1		CB16
73	GA330	4	100k	PCB	-6.0	0.0			3			800n	600n	1.4u	1.3	1.0 *	-55	71	4		CB16
74	PM10803	4	100k	3DM	0.0	-6.5				18	6.0										ZB37
75	AC2M	4	200k	PCB	-10	0.0				12	12						0	50	4	J0425	CB19
76	EM5007	4	200k	3DM	-6.0	0.0	DTL	2	12	6.0	6.0	140n	110n	1.0u	56m		0	70	1	J0420	M62c
77	CT166-4	4	250k	PCB	-3.0	-11		2				400n	200n		336m	1.5	-45	65	4		CB16
78	PM6013	4	300k	3DM	10	0.0				18	0								1		ZB37
79	SS315	4	500k	3DM	6.0	0.0	RCT	1	4	12	12	250n	150n	1.3u	170m	1.0	-25	125	1	J041a	M2
80	SS5506	4	3.0M	PCB			CDL	3	24	0	5.0	160n			630m		0	70	3		CB56
81	OT18	4	5.0M	PCB	4.0	0.0	DTL	2	24	0	8.0				2.0		5	71	4	J0432	CB37a
82	SS415	4	5.0M	3DM	0.0	-6.0	RCT	1	4	12	12	50n	40n	150n	170m	1.0	-25	60	1	J041	M2
83	451	4BC	200k	PCB	0.0	-6.8	DTL	3		12	12		200n	500n	1.0		0	55	3		CB24
84	SN1005	4F		MON	2.2	.30	DTL		10	0.0	4.0	100n			30m	200m	-55	125	1		ZB5
85	13B	4F	10k%	3DM	12.5Δ	0.0	RTL	4	4	6.0	24	1.0m	1.5u	1.0u	500m	750m	-10	70	1	J0416	ZB38
86	13C	4F	10k%	3DM	12.5%	0.0	RTL	4	4	6.0	24	2.0m	1.5u	1.0u	500m		-10	70	1	J0417	ZB38
87	EM2506S2	4F	250k	3DM	0.0	-6.0	DTL	3		12	6.0	180n	300n	1.0u	255m		-55	71	1	J0421	M62c
88	EM2606S2	4F	2.0M	3DM	0.0	-6.0	DTL	3		12	6.0	35n	25n	30n	345m		-55	71	1	J0421	M62c
89	EM3006	4F	2.0M	3DM	6.0	0.0	DTL	3	5	6.0	12	30n	20n	40n	210m	2.0m	-55	125	1	J0424	M62c
90	SE1606	5					DTL	1	4	2.0	4.0				25m	1.0	-55	125	1	K0527	
91	SE1606K	5					DTL	1	4	2.0	4.0				25m	1.0	-55	125	1	J0527	
92	RC951D	5		DTL	2.0%	1.0*	DTL	6	10	0	5.0				35m†		0	75	1		M105m
93	RC951J	5		DTL	2.0%	1.0*	DTL	6	10	0	5.0				35m†		0	75	1		FP28
94	RC951P	5		DTL	2.0%	1.0*	DTL	6	10	0	5.0				35m†		0	75	1		M105k
95	RC951Q	5		DTL	2.0%	1.0*	DTL	6	10	0	5.0				35m†		0	75	1		FP26b
96	RC951T	5		DTL	2.0%	1.0*	DTL	6	10	0	5.0				35m†		0	75	1		TO101
97	RM951P	5		DTL	2.0%	1.0*	DTL	6	10	0	5.0				35m†		-55	125	1		M105k
98	FuL95129	5		MON			DTL		10	0.0	5.0	25n			35m	1.0	0	70	1	J0545	
99	WS841Q	5		MON			RTL	2	10										1	J0523	FP37
100	SN518A	5		MON	.30	2.5	RCT	1	5	0.0	6.0	60n	70n	930n	15m	200m	-55	125	1	J0544	TO89
101	011001	5		MON	.80	.25	TTL	1	10	0.0	3.0	100n			26m	300m	-55	125	1	J0511	TO78
102	011004	5		MON	.80	.25	TTL	1	5	0.0	3.0	100n			26m	250m	0	70	1	J0511	TO78
103	011008	5		MON	.80	.25	TTL	1	5	0.0	3.0	100n			26m	265	-55	125	1	J0511	TO78
104	US0108A	5		MON	2.0%	.30†*	RCT	1	5	0.0	8.0	800p	330n	1.2u	15m		-55	125	1	J0555	TO89
105	USR0108A	5		MON	2.0%	.30*	RCT	1	5	0.0	8.0	800p	330n	1.2u	15m		-55	125	1	J0555	FP22
106	USR0108B	5		MON	2.0%	.30*	RCT	1	5	0.0	8.0	800p	330n	1.2u	15m		-55	125	1	J0555	FP23
107	RC288D	5		MON	2.0%	1.0*	DTL	2	11†	0.0	6.0	100nΔ			75m		0	75	1	J0576	M105w
108	RC288J	5		MON	2.0%	1.0*	DTL	2	11†	0.0	6.0	100nΔ			75m		0	75		J0576	FP28d
109	RC288P	5		MON	2.0%	1.0*	DTL	2	11	0	6.0				30m†	1.0	0	75	1	J0576	M105k
110	RC288Q	5		MON	2.0%	1.0*	DTL	2	11†	0.0	6.0	100nΔ			75m		0	75	1	J0576	FP26d

10. TIME DELAY

IN ORDER OF(1)TIME DELAY(2)MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TIME DELAY TYPE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL 4 '1' (V)	LOGIC LEVEL 5 '0' (V)	LOGIC TYPE	FAN IN	FAN OUT MAX.	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	MIN. DELAY (s)	MAX. RISE TIME tr (s)	MAX. FALL TIME tf (s)	MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP. LOW °C	TEMP. HI °C	CKT PER MOD	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO
1	RC288T	5		MON	2.0%	1.0*	DTL	2	11†	0.0	6.0	100nΔ			75m		0	75		J0576	CN12a
2	RM288J	5		MON	2.0%	1.0*	DTL	2	11†	0.0	6.0	100nΔ			75m		-55	125	1	J0576	FP28d
3	RM288P	5		MON	2.0%	1.0*	DTL	2	11	0	6.0				30m†	1.0	-55	125	1	J0576	M105k
4	RM288Q	5		MON	2.0%	1.0*	DTL	2	11†	0.0	6.0	100nΔ			75m		-55	125	1	J0576	FP26d
5	WM218G	5		MON	2.0	1.0	DTL	2	6†	0	6.0	70n			105m†	550m	-55	125	1		TO84
6	WM218Q	5		MON	2.0	1.0	DTL	2	6†	0	6.0	70n			105m†	550m	-55	125	1		TO86
7	WM218T	5		MON	2.0	1.0	DTL	2	6†	0	6.0	70n			105m†	550m	-55	125	1		CN18
8	WC218D	5		MON	2.1	1.0	DTL	2		0	6.0	70n			105m†	700m	0	75	1		TO116
9	WC218T	5		MON	2.1	1.1	DTL	2		0	6.0	70n			105m†	700m	0	75	1		CN18
10#	9951-1	5		MON	2.5%	.40*Δ	DTL	3	10	0	5.0								1	J0545	ZB163
11#	D951-1R	5		MON	2.5%	.40Δ*	DTL	3	10	0.0	5.0	70n					-55	125	1	J0545	TO116
12#	D951-1U	5		MON	2.5%	.40Δ*	DTL	3	10	0.0	5.0	70n					-55	125	1	J0545	FP32
13	HEPC3804P-RT	5		MON	2.5%	.40*†	TTL	1	7	0.0	5.0				150m†		0	75	2	J0593	TO116
14	DTL395151	5		MON	2.6%	.40*†	DTL	3Δ	20	0.0	8.0	50n			37m	500m	-55	125	1	J0545	FP28
15	DTL695151	5		MON	2.6%	.40*†	DTL	3Δ	20	0.0	8.0	50n			37m	500m	-55	125	1	J0545	M54
16	DTL395159	5		MON	2.8%	.45*†	DTL	3Δ	20	0.0	8.0	50n			37m	500m	0	75	1	J0545	FP28
17	DTL695159	5		MON	2.8%	.45*†	DTL	3Δ	20	0.0	8.0	50n			37m	500m	0	75	1	J0545	M54
18	SE161J	5		MON	3.2%	.35†*	DTL	2	4	0	8.2			75n		1.0 Δ	-55	125	1	J0571	TO88
19#	9951-9	5		MON	3.2%	.45*Δ	DTL	3	10	0	5.0								1	J0545	ZB163
20#	D951-9R	5		MON	3.2%	.45Δ*	DTL	3	10	0.0	5.0	70n					0	75	1	J0545	TO116
21#	D951-9U	5		MON	3.2%	.45Δ*	DTL	3	10	0.0	5.0	70n					0	75	1	J0545	FP32
22	O12001	5		MON	3.5†	.30	DTL	2	4	0.0	4.0				5.0m	800m	-55	125	1	J0512	CN11
23	O42001	5		MON	3.5†	.30	DTL	2	4	0.0	4.0				5.0m	800m	-55	125	1	J0512	FP26c
24	LU362A	5		MON	3.5%	.40*			5	0.0	5.0	35n%		40n†	125m		10	55	1	J0579	M⍁
25	NE8162A	5		MON	3.6%	.35*†	DTL	2		0	6.0	60nΔ			90m		0	75	1	J0552a	TO116
26	NE8162J	5		MON	3.6%	.35*†	DTL	2		0	6.0	60nΔ			90m		0	75	1	J0552a	TO88
27	SE8162A	5		MON	3.6%	.35*†	DTL	2		0	6.0	60nΔ			90m		-55	125	1	J0552a	TO116
28	SE8162J	5		MON	3.6%	.35*†	DTL	2		0	6.0	60nΔ			90m		-55	125	1	J0552a	TO88
29	NE160G	5		MON	3.9%	.45*†	DTL	4	4	6.0	6.0				250m	1.0 Δ	0	70	1	J0565	TO91
30	NE160K	5		MON	3.9%	.45*†	DTL	4	4	6.0	6.0				250m	1.0	0	70	1	J0566	CN17
31	NE161A	5		MON	3.9%	.45*†	DTL	2	4	0	6.2	75nΔ			60m†		0	70	1	J0552	TO116
32	NE161J	5		MON	3.9%	.45*†	DTL	2	4	0	6.2	75nΔ			60m†		0	70	1	J0552	TO88
33	NE161K	5		MON	3.9%	.45*†	DTL	6	4	0	6.0				250m	1.0	0	70	1	J0552	CN17
34	NE162A	5		MON	3.9%	.45*†	DTL	2	4	0	6.2	75nΔ			60m†		0	70	1	J0552a	TO116
35	NE162J	5		MON	3.9%	.45*†	DTL	2	4	0	6.2	75nΔ			60m†		0	70	1	J0552a	TO88
36	SE160G	5		MON	3.9%	.45†*	DTL	2Δ	4	0	8.2					1.0 Δ	-55	125	1	J0565	TO91
37	SE160K	5		MON	3.9%	.45†*	DTL	2Δ	4	0	8.2					1.0 Δ	-55	125	1	J0565	CN17
38	SE161K	5		MON	3.9%	.45†*	DTL	2	4	0	8.2					1.0 Δ	-55	125	1	J0552	CN17
39	DTuL951#1	5		MON	4.5	.30	DTL	3Δ	10	0.0	8.0	25n			37m	1.0	-55	125	1	J0545	CN29
40	DTuL951#2	5		MON	4.5	.30	DTL	3Δ	10	0.0	8.0	25n			37m	1.0	-55	125	1	J0545	FP28
41	SD342BG	5		MON	6.5%	5.0*	DTL	2Δ		0.0	12	100n%					-55	125	2	J0549	CN50
42	SD342BJ	5		MON	6.5%	5.0*	DTL	2Δ		0.0	12	100n%					-55	125	2	J0549	M172
43	SD342CG	5		MON	6.5%	5.0*	DTL	2Δ		0.0	12	100n%					-30	100	2	J0549	CN50
44	SD342CJ	5		MON	6.5%	5.0*	DTL	2Δ		0.0	12	100n%					-30	100	2	J0549	M172
45	WCZ298Z	5		MON	7.5	6.0	DTL	3	6†	0	12	60n			96m	4.0	0	75	1		
46	342BG	5		MON	11.3	1.2†	DTL	2Δ	5	0.0	12	150nΔ			200m	5.0 Δ	-55	125	2	J0549	CN69
47	342BJ	5		MON	11.3	1.2†	DTL	2Δ	5	0.0	12	150nΔ			200m	5.0 Δ	-55	125	2	J0549	M172
48	342BN	5		MON	11.3	1.2†	DTL	2Δ	5	0.0	12	150nΔ			200m	5.0 Δ	-55	125	2	J0549	M204
49	342CG	5		MON	11.3	1.2†	DTL	2Δ	5	0.0	12	140nΔ			200m	5.0 Δ	-30	85	2	J0549	CN69
50	342CN	5		MON	11.3	1.2†	DTL	2Δ	5	0.0	12	140nΔ			200m	5.0 Δ	-30	85	2	J0549	M204
51	DM01	5		PCB	5.0*	.60*†		1	4	0	5.0	50n					0	70	3	J0570	
52	IOS2279	5	5.0	PCB	2.0%	.95*	DTL	2	10	0	5.0	100n	50n†	15n†	200m	1.0 Δ	0	75	4		CB⍁
53	IOS2282	5	5.0	PCB	2.0%	.95*	DTL	2	10	0	5.0	100n	50n†	15n†	200m	1.0 Δ	0	75	4		CB⍁
54	IOS2283	5	5.0	PCB	2.0%	.95*	DTL	2	10	0	5.0	100n	50n†	15n†	200m	1.0 Δ	0	75	2		CB⍁
55	IOS2284	5	5.0	PCB	2.0%	.95*	DTL	2	10	0	5.0	100n	50n†	15n†	100m	1.0 Δ	0	75	2		CB⍁
56	4JD12X248	5	15k	MON	1.5			1		0.0	6.0				300m		-55	125	1	J0522	CN24
57	DC01CPS1	5	20k	PCB	0.0	-6.0		2	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	3		
58	DC01CXPS1	5	20k	PCB	0.0	-6.0		2	4	12	12	1.5u	3.5u	5.0u		1.0	-55	55	3		
59	DC01CSPS1	5	20k	PCB	6.0	0.0		2	4	12	12	500n	1.0u	1.0u		1.0	-55	100	3		
60	DC01CSXPS1	5	20k	PCB	6.0	0.0		2	4	12	12	500n	1.0u	1.0u		1.0	-55	100	3		
61	DC01MDM1	5	20k	PCM	0.0	-6.0		3	4	12	12		3.5u	5.0u		1.0	-55	55	1		
62	DC01MSDM1	5	20k	PCM	6.0	0.0		3	4	12	12		1.0u	1.0u		1.0	-55	100	1		
63	CM8663	5	50k	3DM	10	0.0				10	30								1		M37
64	4ASM	5	80k	PCB	-10	0.0	RCT			12	12				600m		0	50	4	J0521	CB19
65	DC1CPS1	5	100k	PCB	0.0	-6.0		2	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	3		
66	DM20	5	100k	PCB	0.0	-6.0	DTL	2Δ	8	18	12	3.0u	500n†	800n†	1.0	1.5 *	-20	55	3	J0560	CB13a
67	DM20A	5	100k	PCB	0.0	-6.0	DTL	2Δ	5	18	12	3.0u	500n†	800n†	1.0	1.5 *	-20	55	3	J0560a	CB13a
68	DS20	5	100k	PCB	0.0	-6.0	DTL	2Δ	6	18	12	3.0u	500n†	800n†	1.4	1.5 *	-20	55	2	J0561	CB13a
69	DS20A	5	100k	PCB	0.0	-6.0	DTL	2Δ	10	18	12	3.0u	500n†	800n†	1.4	1.5 *	-20	55	2	J0561a	
70	OS641A	5	100k	PCB	0.0	-6.0	RCT	2	6	12	12	5.0u	1.0u	2.0u	700m	1.5 Δ	-45	65	4	J0546	CB1
71	OS642A	5	100k	PCB	0.0	-6.0	RCT	2	1	12	12	5.0u	1.0u	2.0u	700m	1.5 Δ	-45	65	4	J0546a	CB1
72	DC1MDM1	5	100k	PCM	0.0	-6.0		3	6	18	18		1.5u	3.0u		1.2	-55	55	1		
73	PM8013	5	100k	3DM	0.0	-6.5				18	6.0								1		ZB37
74	OS4	5	100k	3DM	2.8	.20	DTL	1	8	0	3.0	5.0m	250n	1.0u	1.5	400m	-20	85	1		M14
75	B895003	5	100k	3DM	6.0	0.0	RCT	4		6.0	6.0	4.0u	200n	400n			-20	60		J059	M4
76	OS11-1	5	100k	3DM	-10	0.0	DTL	1	3	12	12	1.0u	200n	500n	230m	2.0	-35	65	1	J0520	M15
77	OS11-2	5	100k	3DM	-10	0.0	DTL	1	3	12	12	200n	100n	300n	230m	2.0	-35	65	1	J0520	M15
78	PM7023	5	150k	3DM	0.0	-6.5				18	6.0								1		ZB37
79	DD12	5	200k	PCB	0.0	-10		2	12	12	6.0	10u			950m		-10	55	2	J0537	CB33
80	11G4311	5	200k	PCB	8.2	0.0		4Δ		0	28	200n	200n					85		J0562	CB49
81	GOS3-.2	5	200k	PCB	-10	0.0	RCT	1	12	12	6.0	300n	250n	500n	1.3	2.0	0	55	3	J0543	CB15
82	PM10123	5	350k	3DM	0.0	-6.5				18	6.0								1		ZB37
83	DM30	5	500k	PCB	0.0	-6.0	DTL	2Δ	8	18	12	700n	100n†	150n†	1.1	1.5 *	-20	55	3	J0560	CB13a
84	DM30A	5	500k	PCB	0.0	-6.0	DTL	2Δ	5	18	12	700n	100n†	150n†	1.0	1.5 *	-20	55	3	J0560a	CB13a
85	DS30	5	500k	PCB	0.0	-6.0	DTL	2Δ	6	18	12	600n	100n†	150n†	1.7	1.5 *	-20	55	2	J0561	CB13a
86	DS30A	5	500k	PCB	0.0	-6.0	DTL	2Δ	10	18	12	700n	100n†	150n†	1.7	1.5 *	-20	55	2	J0561a	CB13a
87	OS741A	5	500k	PCB	0.0	-6.0	RCT	2	6	12	12	1.0u	350n	350n	1.1	1.5 Δ	-45	65	4	J0546	CB1
88	OS742A	5	500k	PCB	0.0	-6.0	RCT	2	1	12	12	1.0u	350n	350n	1.1	1.5 Δ	-45	65	4	J0546a	CB1
89	DM130	5	500k	PCB	6.0	0.0	DTL	2	8	12	18	700n			1.1	1.5 *	-55	100	3	J0558	CB13a
90	DS130	5	500k	PCB	6.0	0.0	DTL	2	6	12	18	700n			1.7	1.5 *	-55	100	2	J0559	CB13a
91	DM3710B	5	500k	TFH	5.0	2.0	RTL	1	6	0	15	10u	200n	80n	9.0m	2.5	-55	125	1	J0541	M57
92	DM3720B	5	500k	TFH	5.0	2.0	RTL	1	6	0	15	10u	200n	80n	9.0m	2.5	-55	125	1	J0541	M57a
93	4ASH	5	800k	PCB	-10	0.0	RCT			12	12				900m		0	50	4	J0521	CB19
94	342AG	5	1.0M	MON	11	1.5		3	5	0.0	12					4.0m	-55	125	2	J0549	CN50
95	UC505	5	1.0M	PCB	0.0	6.5	RCT		3	12	12			150n	807m		-55	125	3	J0519	CB16
96	MV30	5	1.0M	PCB	0.0	-6.0	DTL	2	34	18	12	600n	100n†	150n†	2.0	1.5 *	-20	55	1	J0561a	CB13a
97	OS2Z	5	1.0M	PCB	0.0	-6.0	DTL	2	4	15	6.0	200p	200n	200n	850m	1.5	0	50	4	J0515	CB14
98	MC51	5	1.0M	PCB	0.0	-6.2	DTL	8		18	18	200n	100n	100n	4.0	2.5 *	0	55	3	J0510a	CB25
99	MV130	5	1.0M	PCB	6.0	0.0	DTL	2	34	12	18				1.8	1.5 *	-55	100	1		CB13a
100	MS51	5	1.0M	PCB	6.2	0.0	DTL	24	6	18	18	80n	100n	100n	4.0	2.5 *	-30	100	1	J0510	CB25
101	TO200	5	1.0M	PCB	10	.40	DTL	4Δ	6	6.0	12	7.0u		80n	1.2	2.5	-55	100	2	J0518	CB15
102	GOS3-1	5	1.0M	PCB	-10	0.0	RCT	1	10	12	6.0	150n	100n	200n	1.5	2.0	0	55	3	J0543	CB15
103	DM3510B	5	1.0M	TFH	5.0	2.0	RTL	1	6	0	12	10u	100n	50n	40m	2.0	-55	125	1	J0541	M57
104	DM3520B	5	1.0M	TFH	5.0	2.0	RTL	1	6	0	12	10u	100n	50n	40m	2.0	-55	125	1	J0541	M57a
105	OS2M	5	1.0M	3DM	0.0	-6.0	DTL	2	4	15	6.0	200p	200n	200n	447m	1.5	0	50	1	J0516	
106	MM10863	5	1.0M	3DM	6.0	0.0				6.0	18								1		MP38
107	LCE206	5	2.0M	MOH	0.0†	-6.0				12	6.0	20n					-10	55	1		CN27
108	DC2CPS1	5	2.0M	PCB	0.0	-6.0		2	6	18	18	50n	150n	250n		1.2	-55	55	3		
109	OS841A	5	2.0M	PCB	0.0	-6.0	RCT	2	5	12	12	250n	90n	110n	1.3	1.5 Δ	-45	65	4	J0546	CB1
110	OS842A	5	2.0M	PCB	0.0	-6.0	RCT	2	1	12	12	250n	90n	110n	1.3	1.5 Δ	-45	65	4	J0546a	CB1

10. TIME DELAY

IN ORDER OF(1)TIME DELAY(2)MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TIME DELAY TYPE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC			FAN		POWER SUPPLY SPAN		MIN. DELAY (s)	MAX.		MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP.		CKT PER MOD	DRAWINGS	
					LEVEL 4 '1' (V)	LEVEL 5 '0' (V)	TYPE	IN	OUT MAX.	NEG. (V)	POS. (V)		RISE TIME tr (s)	FALL TIME tf (s)			LOW °C	HI °C		LOGIC DWG. No	OUTLINE DWG. No Δ=MO
1	DD22	5	2.0M	PCB	0.0	-10		2	12	12	6.0	1.0u			970m		-10	55	2	J0537	CB33
2	OS31	5	2.0M	PCB	3.0	0.0	DTL	3	30	0	4.0	150n	140n	100n	500m	4.0	-40	70	3		CB10a
3	DC2CSPS1	5	2.0M	PCB	6.0	0.0		2	6	18	18	50n	150n	250n		1.2	-55	100	3		
4	DC2MDM1	5	2.0M	PCM	0.0	-6.0		3	6	18	18		150n	250n		1.2	-55	55	1		
5	DC2MSDM1	5	2.0M	PCM	6.0	0.0		3	6	18	18		150n	250n		1.2	-55	100	1		
6	PM10963	5	2.0M	3DM	0.0	-6.5				18	6.0								1		ZB37
7	OS21-1	5	2.0M	3DM	10	0.0	DTL	1	3	12	12	150n	100n	30n	230m	2.0	-35	125	1	J0520a	M16
8	DM35	5	2.5M	PCB	0.0	-6.0	DTL	2Δ	6	18	12	140n	25n†	50n†	1.6	1.5 *	-20	55	3	J0560	CB13a
9	DM35A	5	2.5M	PCB	0.0	-6.0	DTL	2Δ	4	18	12	140n	25n†	50n†	1.4	1.5 *	-20	55	3	J0560a	CB13a
10	DS35	5	2.5M	PCB	0.0	-6.0	DTL	2Δ	4	18	12	140n	25n†	50n†	2.3	1.5 *	-20	55	2	J0561	CB13a
11	DS35A	5	2.5M	PCB	0.0	-6.0	DTL	2Δ	7	18	12	140n	25n†	50n†	2.3	1.5 *	-20	55	2	J0561a	CB13a
12#	FCK102	5	3M	MON	2.0	1.0	DTL	2	11	0	6.0	120n			110m		-55	125			TO84
13	SS5507	5	3.0M	PCB			CDL	3	24	0	5.0	160n			630m		0	70	3		CB56
14	WS840Q	5	4.0M	MON			DTL			0.0	6.0				37m	550m*	-55	125	1	J0523	TO91
15	A08A	5	4.0M	MON	2.7	1.7	DTL	1	5	0	5.0	40n	25n	8.0n	54m	900m	-55	125	1	J0538	CN16a
16	A08F	5	4.0M	MON	2.7	1.7	DTL	1	5	0	5.0	40n	25n	8.0n	54m	900m	-55	125	1	J0538	TO84
17	A48A	5	4.0M	MON	2.7	1.7	DTL	1	5	0	5.0	40n	25n	8.0n	54m	900m	-55	125	1	J0538	CN16
18	A48F	5	4.0M	MON	2.7	1.7	DTL	1	5	0	5.0	40n	25n	8.0n	54m	900m	-55	125	1	J0538	TO84
19	IOS0223	5	4.0M	PCB	2.5%	.40*	DTL	3Δ	10	0	5.0	20nΔ			200m	400m	0	75	4	J0566	CB51
20	IOS0224	5	4.0M	PCB	2.5%	.40*	DTL	3Δ	10	0	5.0	50nΔ			200m	400m	0	75	4	J0566a	CB51
21	IP2H	5	5.0M	MOH	5.0	0.0		1	12	0.0	5.0	60n			150m	1.0	0	100	2		CB7
22	IP2L	5	5.0M	MOH	5.0	0.0		1	12	0.0	5.0	60n			150m	1.0	15	55	2		CB7
23	IP2M	5	5.0M	MOH	5.0	0.0		1	12	0.0	5.0	60n			150m	1.0	0	70	2		CB7
24	DM335	5	5.0M	MOH	6.3*	1.1*	DTL	4	15	0	6.3	50n			560m	1.3	0	55	2	J0510a	CB13
25	G506	5	5.0M	PCB	0.0	-6.0			3			20n	20n	50n	840m	2.0	-55	71	1	J0578	CB16
26	MV35	5	5.0M	PCB	0.0	-6.0	DTL	2	23	18	12	140n	25n†	50n†	2.8	1.5 *	-20	55	1	J0561a	CB13a
27	OS941A	5	5.0M	PCB	0.0	-6.0	RCT	2	4	12	12	70n	26n	30n	2.5	1.5 Δ	-45	65	4	J0546	CB1
28	OS942A	5	5.0M	PCB	0.0	-6.0	RCT	2	1	12	12	70n	26n	30n	2.5	1.5 Δ	-45	65	4	J0546a	CB1
29	DM336	5	5.0M	PCB	1.5%	0.0			8	0	6.0	50n			600m		0	55	2	J0568	CB13
30	DM337	5	5.0M	PCB	1.5	1.2	DTL	3	8	0	6.0	150n	100p	1.0u	600m		0	55	2	J0577	
31	GA506	5	5.0M	PCB	-6.0	0.0			3			20n	20n	50n	840m	2.0	-55	71			CB16
32	GOS3-5	5	5.0M	PCB	-10	0.0	RCT	1	20	12	6.0	40n	30n	70n	1.8	2.0	0	55	3	J0543	CB15
33	TMC400-02	5	5.0M	TFH	6.0	0.0	RCT		15	3.0	6.0	10n	20n	20n	50m	1.0	-55	125	1	J0524	FP10
34	MM10433	5	5.0M	3DM	6.0	0.0				6.0	18								1		MP38
35	WM10433	5	5.0M	3DM	6.5	0.0				6.0	18								1		M43
36	NC16	5	10M	MOH	5.0	0.0	RCT		5	0	12		30n	20n	200m		-55	125	1	J0539	CN45
37	PC16	5	10M	MOH	5.0	0.0	RCT	1	5	0	12		30n	20n	200m		-55	125	1	J0539	FP8e
38	PC18	5	10M	MOH	5.0	0.0	RCT		5	0	12		30n	20n	200m		-55	125	1	J0540	FP8f
39	SW951-1D	5	10M†	MON			DTL	3Δ	10†	0.0	8.0	25n			30m	1.0	-55	125	1	J0569	TO85
40	SW951-2D	5	10M†	MON			DTL	3Δ	10†	0.0	8.0	25n			30m	1.0	0	75	1	J0569	TO85
41	SW728-1D	5	10M†	MON	1.8%	1.2*	DTL	3Δ	16†	0.0	8.0	25n			25m	1.0	-55	125	1	J0550	TO85
42	SW728-2D	5	10M†	MON	1.8%	1.2*	DTL	3Δ	16†	0.0	8.0	25n			25m	1.0	0	75	1	J0550	TO85
43	SN1514	5	10M	MON	2.5	.40	DTL	2	9	0.0	5.5	50n			50m	750m	-55	125	1		TO84
44	SN1594	5	10M	MON	2.5	.40	DTL	2	9	0.0	5.5	50n			50m	750m	0	70	1		TO84
45	SN1594P	5	10M	MON	2.5	.40	DTL	2	9	0.0	5.5	50n			50m	750m	0	70	1		M63
46	SE162J	5	10M†	MON	3.2%	.35†*	DTL	2	4	0	8.2	52n		50n	60m	1.0 Δ	-55	125	1		TO88
47	UC705	5	10M	PCB	0.0	6.5	DTL		3	0.0	12				1.4		-55	125	3	J0519	CB16
48	DC10CPS1	5	10M	PCB	0.0	-6.0		2	4	18	18	25n	50n	80n		1.2	-55	55	3		
49	OT12	5	10M	PCB	4.0	0.0		4	28	8.0	8.0					1.8	5	71	2		CB37a
50	DC10MDM1	5	10M	PCM	0.0	-6.0		3	4	18	18		50n	80n		1.2	-55	55	1		
51	U815	5	10M	3DM	0.0	6.5	DTL		3	0.0	12				457m		-55	125	1	J0519	M60
52	OS31-1	5	10M	3DM	-10	0.0	DTL	1	3	12	12	80n	30n	50n		2.0	-35	65	1		M15
53	DM4410B	5	20M	TFH	5.0	2.0	RTL	1	6	0	9.0	100n	40n	40n	80m	1.5	-55	125	1	J0541	M57
54	DM4420B	5	20M	TFH	5.0	2.0	RTL	1	6	0	9.0	100n	40n	40n	80m	1.5	-55	125	1	J0541	M57a
55	DC50CSPS1	5	50M	PCB	3.0	0.0		2	4	12	12	9.0n	7.0n	10n		1.0	-10	100	3		
56	DC50MSDM1	5	50M	PCM	3.0	0.0		3	4	12	12		7.0n	10n		1.0	-10	100	1		
57	DC1CDM1	5A	100k	PCB	0.0	-6.0		2	6	18	18	1.0u	1.5u	3.0u		1.2	-55	55	2		
58	DC2CDM1	5A	2.0M	PCB	0.0	-6.0		2	6	18	18	50n	150n	250n		1.2	-55	55	2		
59	DC2CSDM1	5A	2.0M	PCB	6.0	0.0		2	6	18	18	50n	150n	250n		1.2	-55	100	2		
60	RC988D	5B		DTL	2.0%	1.0*	DTL	2	10	0	5.0					1.0	0	75	1	J0578a	M105m
61	RC988J	5B		DTL	2.0%	1.0*	DTL	2	10	0	5.0					1.0	0	75	1	J0578a	FP28
62	RC988P	5B		DTL	2.0%	1.0*	DTL	2	10	0	5.0					1.0	0	75	1		M105k
63	RC988T	5B		DTL	2.0%	1.0*	DTL	2	10	0	5.0					1.0	0	75	1	J0578	TO101
64	RM988D	5B		DTL	2.0%	1.0*	DTL	2	10	0	5.0					1.0	-55	125	1	J0578a	M105m
65	RM988J	5B		DTL	2.0%	1.0*	DTL	2	10	0	5.0					1.0	-55	125	1	J0578a	FP28
66	RM988P	5B		DTL	2.0%	1.0*	DTL	2	10	0	5.0					1.0	-55	125	1		M105k
67	RM988T	5B		DTL	2.0%	1.0*	DTL	2	10	0	5.0					1.0	-55	125	1	J0578	TO101
68	OX12	5B		PCB	8.0	0.0	DTL	3	4	25	25	100n	65n	35n	2.0	3.5	-55	100	2	J0535	CB34
69	OX13	5B		PCB	8.0	0.0	DTL	3	20	25	25	2.0u	140n	60n	1.6	3.5	-55	100	3	J0534	CB34
70	OX14	5B		PCB	8.0	0.0	DTL	3	20	25	25	500n	140n	60n	1.6	3.5	-55	100	3	J0534	CB34
71	8055	5B	1.0M	PCB	-4.4	0.0	RTL	5†	8	20	20	100n	50n	100n	412m	1.4	0	55	4		CB2
72#	FCK102Q	5B	2.5MØ	MON	2.0	1.0	DTL	4	11	0	6.0	120n%			110m†	550m*	-55	125	1	J0578	TO91
73	DBOS1193	5F		PCB	6.0%	1.0†*	DTL	5	10	6.0	12	30n	75n	45n					1	J0528	M52
74	DCOS1193	5F		PCB	6.0%	1.0†*	DTL	5	10	6.0	12	30n	75n	45n					1	J0528	CB29
75	OS21	5F	100k	PCB	0.0	-10	RCT	3Δ	10	12	6.0	1.5u	1.0u	4.0u	160m	1.5	-20	55	2	J058	CB10
76	B895001	5F	100k	3DM	6.0	0.0	RCT	4		6.0	6.0	200n	1.0u	1.8u			-20	60	1	J054	M4
77	B895004	5F	100k	3DM	6.0	0.0	RDL	6		6.0	6.0						-20	60	1	J055	
78	DM13	5F	200k	PCB	0.0	-11		2	12	12	6.0	2.0u			700m		-10	55	3	J0536	CB33
79	OS1	5F	300k	PCB	0.0	-10	RCT	3Δ	10	12	6.0	1.0u	500n	1.0u	180m	1.5	-20	55	2	J058	CB10
80	SOS21	5F	300k	PCB	8.0	0.0	RCT	3Δ	10	12	12	1.0u	500n	1.0u	160m	1.5	-40	75	2	J058	CB10
81	4306	5F	330k	PCB	0.0	-3.0	RCT	2	7	15	10	1.0u	60n	190n	1.8	500m	-20	55	3	J0531	CB30
82	DBOS1193ZA	5F	1.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	0	50	1	J0528	M52
83	DBOS1193ZAN	5F	1.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	0	50	1	J0528	MP52a
84	DBOS1193ZB	5F	1.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-20	75	1	J0528	M52
85	DBOS1193ZBN	5F	1.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-20	75	1	J0528	MP52a
86	DBOS1193ZC	5F	1.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-40	100	1	J0528	M52
87	DBOS1193ZCN	5F	1.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-40	100	1	J0528	MP52a
88	DBOS1193ZD	5F	1.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-55	125	1	J0528	M52
89	DBOS1193ZDN	5F	1.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-55	125	1	J0528	MP52a
90	DCOS1193ZA	5F	1.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	0	50	1	J0528	CB29
91	DCOS1193ZB	5F	1.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-20	75	1	J0528	CB29
92	DCOS1193ZC	5F	1.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-40	100	1	J0528	CB29
93	DCOS1193ZD	5F	1.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-55	125	1	J0528	CB29
94	SOS1	5F	1.5M	PCB	8.0	0.0	RCT	3Δ	10	12	12	200n	150n	250n	200m	1.5	-40	75	2	J058	CB10
95	OS1A	5F	2.0M	PCB	0.0	-10	RCT	3Δ	7	12	6.0	200n	150n	250n	200m	1.5	-20	55	2	J058	CB10
96	DM23	5F	2.0M	PCB	0.0	-11		2	12	12	6.0	2.0u			800m		-10	55	3	J0536	CB33
97	DBOS1193YA	5F	5.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	0	50	1	J0528	M52
98	DBOS1193YAN	5F	5.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	0	50	1	J0528	MP52a
99	DBOS1193YB	5F	5.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-20	75	1	J0528	M52
100	DBOS1193YBN	5F	5.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-20	75	1	J0528	MP52a
101	DBOS1193YC	5F	5.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-40	100	1	J0528	M52
102	DBOS1193YCN	5F	5.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-40	100	1	J0528	MP52a
103	DBOS1193YD	5F	5.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-55	125	1	J0528	M52
104	DBOS1193YDN	5F	5.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-55	125	1	J0528	MP52a
105	DCOS1193YA	5F	5.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	0	50	1	J0528	CB29
106	DCOS1193YB	5F	5.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-20	75	1	J0528	CB29
107	DCOS1193YC	5F	5.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-40	100	1	J0528	CB29
108	DCOS1193YD	5F	5.0M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-55	125	1	J0528	CB29
109	OS2	5F	5.0M	PCB	0.0	-10	RCT	3Δ	7	12	6.0	150n	100n	100n	200m	1.5	-20	55	2	J058	CB10
110	DBOS1193XA	5F	10M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	0	50	1	J0528	M52

10. TIME DELAY

IN ORDER OF(1)TIME DELAY(2)MAX OPER FREQ
(3)PROCESS(4)LEVEL'1'(5)LEVEL'0'(6)TYPE No.

LINE No.	6 TYPE No.	1 TIME DELAY TYPE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL		LOGIC	FAN		POWER SUPPLY SPAN		MIN. DELAY (s)	MAX.		MAX. TOTAL PKG. DISS. (W)	MAX. NOISE REJECT (V)	TEMP.		CKT PER MOD	DRAWINGS	
					4 '1' (V)	5 '0' (V)	TYPE	IN	OUT MAX.	NEG. (V)	POS. (V)		RISE TIME tr (s)	FALL TIME tf (s)			LOW °C	HI °C		LOGIC DWG. No	OUTLINE DWG. No Δ=MO
1	DBOS1193XAN	5F	10M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	0	50	1	J0528	MP52a
2	DBOS1193XB	5F	10M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-20	75	1	J0528	M52
3	DBOS1193XBN	5F	10M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-20	75	1	J0528	MP52a
4	DBOS1193XC	5F	10M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-40	100	1	J0528	M52
5	DBOS1193XCN	5F	10M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-40	100	1	J0528	MP52a
6	DBOS1193XD	5F	10M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-55	125	1	J0528	M52
7	DBOS1193XDN	5F	10M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-55	125	1	J0528	MP52a
8	DCOS1193XA	5F	10M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	0	50	1	J0528	CB29
9	DCOS1193XB	5F	10M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-20	75	1	J0528	CB29
10	DCOS1193XC	5F	10M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-40	100	1	J0528	CB29
11	DCOS1193XD	5F	10M		6.0	1.0†	DTL	5	10	6.0	12	30n	75n	45n		350m	-55	125	1	J0528	CB29
12	4303	5FG	1.6M		-3.0	0.0	RCT	4	9	15	10	3.4u	40n	60n	1.1	500m	-20	55	1	J0530	CB30
13	4301	5G	130k		-3.0	0.0	RCT	2Δ	12	15	10	2.5u	100n	10n	1.2	500m	-20	55	1	J0529	CB30
14	1304	5G	1.5M		-3.0	0.0	RCT	2Δ	12	15	10	250n	10n	20n	1.2	500m	-20	55	1	J0529	CB30
15	6303	5G	6.5M		-3.0	0.0	RCT	2Δ	14	15	10	50n	15n	20n	4.5	500m	-20	55	1	J0532	CB30
16	6304	5G	6.5M	PCB	-3.0	0.0	RCT	2Δ	14	15	10	50n	10n	10n	1.5	500m	-20	85	1	J0529	CB30
17	8203	5G	10M	TFH	3.0	0.0	DTL	1	1	0	6.0	30n	20n	10n	170m		-55	125	1	J0514	M7

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) MAX. OPERATING FREQ. (3) PROCESS (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL		POWER SUPPLY SPAN		MAX. TOTAL PKG. DISS. (W)	TEMP.		DRAWINGS		GENERAL DESCRIPTION
					'1' (V)	'0' (V)	NEG. (V)	POS. (V)		LOW °C	HI °C	LOGIC DWG. No	OUTLINE DWG. No Δ=MO	
1	NB3004									15	55			Half Adder.
2	C11001			MON	.80	.25	0.0	3.0	66m	-55	125	K155	CN10	Counter Adapter;TpD 35ns.
3	NC3009			MON	.82	.57	2.7	3.3		15	55	K0650	CN29	
4	4518			PCB	0.0	-3.0	15	10	429m	-20	55	K1549	CB30	1 ckt;Magnetic Drum Writer.
5	950		50k	PCB			24	24		-25	85			Variable Voltage Comparator;Tr and Tf2.0us
6	1534		90k	PCB	-3.0	0.0	15	10	960m	-20	55	K1541	CB30	3 ckts;Variable Slicing Rectifier.
7	1535		90k	PCB	-3.0	0.0	15	10	1.1	-20	55	K1540	CB30	2 ckts;Peak Detector.
8	4676		100k	PCB	0.0	-3.0	50	10	1.3	-20	55	K1557	CB30	1 ckt;Scope Intensifier.
9	4526		200k	PCB	-3.0	0.0	15	10	3.0	-20	55	K1552	CB30	1 ckt;NRZ Writer.
10	439		300k	PCB	-6.8	0.0	12	12	1.6	0	55		CB24	Dual Electronic Switch.
11	446		300k	PCB	-6.8	0.0	12	12	1.2	0	55	K1522	CB24	Parity Module
12	453		300k	PCB	-6.8	0.0	12	12	4.0	0	55		CB24	Sequence Control.
13	ED1		300k	PCB	-10	0.0	12	61	1.3	-20	55		CB10	6 Bit Equality Det Parallel Comp.
14	SN340A		500k	MON	3.0	.35	3.0	6.0	50m	-65	150	K1578	ZB6	2 Ckt;Low Level Switch.
15	SN355A		500k	MON			6.0	34	160m	-65	150	K1579	ZB6	1 Ckt;Driver Switch.
16	MC1124P		500k†	MOS	2.5*	9.0%	40	.30		0	75	K15127	M114	Freq Divider;Fan Out-5;IDD-2.5mADC.
17	MEM5116		500kΔ	MOS	-10%	-2.0*	27	0.0	108m	-55	85		M118	16 Channel Random/Sequential Access Mx.
18	1537		500k	PCB			15	10	1.5	-20	55	K1542	CB30	Drum Sense Amplifier.
19	1570		500k	PCB	2.5	0.0	15	10	1.4	-20	55	K1544	CB30	Slice Flip Flop.
20	M6924		500k	3DM	6.0	0.0	6.0	6.0					MP38	Commutator.
21	CT127-1		250M				12	5.0	120m	-54	71			Crystal Oscillator - Oven Operated.
22	ADC8F	1			2.4	.40†	15	15		0	70		CB57a	High speed converter.
23	ADC8T	1			1.7	.90	15	15		0	70		CB37e	Multi-option converters.
24	ADC8U	1			2.4	.40†	15	15		0	70		CB37f	Utility converters.
25.	ADC10F	1			2.4	.40†	15	15		0	70		CB57a	High speed converter.
26	ADC10T	1			1.7	.90	15	15		0	70		CB37e	Multi-option converters.
27	ADC10U	1			2.4	.40†	15	15		0	70		CB37f	Utility converters.
28	ADC12T	1			1.7	.90	15	15		0	70		CB37e	Multi-option converters.
29	ADC12U	1			2.4	.40†	15	15		0	70		CB37f	Utility converters.
30	WS815Q	1		MON			0.0	25	60m	-55	125	K011	FP37	Dual Interface Matching Circuit.
31	1563	1		PCB						-20	55	K012	CB30	2 ckts; 8 Bits.
32	1564	1		PCB						-20	55	K013	CB30	1 ckts; 14 Bits.
33	1574	1		PCB						-20	55	K014	CB30	1 ckt; 12 Bits.
34	ADC8Q	1		PCB	2.0%	.80*	15	15	750m%	0	70		MP213	8 bits; Conversion time, 14us max.
35	ADC8QET	1		PCB	2.0%	.80*	15	15	750m%	-55	125		MP213	8 bits; Conversion time, 14us max.
36	ADC10Q	1		PCB	2.0%	.80*	15	15	750m%	0	70		MP213	10 bits; Conversion time, 20us max.
37	ADC10QET	1		PCB	2.0%	.80*	15	15	750m%	-55	125		MP213	10 bits; Conversion time, 20us max.
38	ADC12Q	1		PCB	2.0%	.80*	15	15	750m%	0	70		MP213	12 bits; Conversion time, 20us max.
39	ADC12QET	1		PCB	2.0%	.80*	15	15	750m%	-55	125		MP213	12 bits; Conversion time, 20us max.
40	CD30	1		PCB	-6.0	0.0	6		800m	0	55	K019		Analog Comparator.
41	SC100	1		PCB	-10%	2.0*	27	15	312m	0	70			MOS;Rin-.25ohms;Accuracy-1.0LSB
42	SC100A	1		PCB	-10%	2.0*	27	15	312m	-55	85			MOS;Rin-.25ohms;Accuracy-1.0LSB
43	501	1		3DM	2.5%	.50*	15	15	900m%	0	70	K0121	M188	8-Bit;Accuracy VS.Temp. 75PPM/°C.
44	510BCD	1		3DM	2.5%	.50*	15	15	1.2 %	0	70	K0121a	M232	3 Decades BCD,Acc.VS.Temp. 75PPM/°C.
45	519	1		3DM	2.5%	.50*	15	15	1.5 %	0	70	K0121	M233	10-Bit;Acc.VS.Temp. 75PPM/°C.
46	5174	1	10k	3DM			12	12	720m	0	50			Voltage to Frequency Transducer.
47	5175	1	10k	3DM			12	12	720m	0	50			Voltage to Frequency Transducer.
48	5185	1	10k	3DM	15	-15	15	15	300m	0	50			Analog Input Coincidence Detector.
49	D4080	1	25k	PCB	2.0%	.95*	22	22	3.3	0	50		CB⍁	A/D Converter;12 Bit (1 Card,3 Card Space)
50	D4078	1	50k	PCB	2.0%	.95*	22	22	3.3	0	50		CB⍁	A/D Converter;8 Bit (1 Card,3 Card Space).
51	7402	1	100k	MOH	10	10	15	15	200m	-55	85			1-Bit Serial Conv.
52	871	1	200kΔ	MOH	-9.0%	-2.0*	27	12		-20	85		M196	12 bit A/D converter.
53	MEM5014	1	200kΔ	MOS	-10%	-2.0*	27	0.0	135m	-55	85		M118	10 Bit;10 Channel Current Multiplexer.
54	DT19	1	200k	PCB	4.0	0.0	35	35	3.8				CB37a	Plus or Minus 10V Bipolar output.
55	R101	1	250k				100		70m	-55	55			Minisig Indicator.
56	R121⍁	1	250k		35	-120			700m	-55	55			Minisig Indicator;High Gain.
57	R201⍁	1	250k		75	-120		50	6.0	-55	55			Minisig Indicator;High Gain.
58	R341	1	250k		-3.0	-11	12	12	510m	-45	65			Minisig Indicator;T Series.
59	R342	1	250k		-3.0	-11	12	12	540m	-45	65			Minisig Indicator;T Series.
60	R346	1	250k		2.5	1.0	12	12	360m	-45	55			Minisig Indicator;High Gain.
61	R381	1	250k		5.0	.50		12	540m	-20	40			Minisig Indicator;High Gain.
62	R382	1	250k		-11	-3.0		12	540m	-20	40			Minisig Indicator;High Gain;T Series.
63	R441	1	250k		-11	-3.0		12	552m	-45	65			Minisig Indicator;High Gain;T Series.
64	R481	1	250k		-5.0	.50	12		600m	-20	40			Minisig Indicator;High Gain.
65	R561	1	250k					100	125m	-55	100			Minisig Indicator;High Gain.
66	R661	1	250k		-135	150		100	80m	-55	100			Minisig Indicator;High Gain.
67	N501	1	250k	PCB			12		600m	-54	65			Driver Circuit.
68	N502	1	250k	PCB			12		600m	-54	65	K018		Driver Circuit.
69	N503	1	250k	PCB			12	150	240m	-54	65	K017a		Driver Circuit.
70	N504	1	250k	PCB			12	12	600m	-54	65	K016		BCD to Decimal Converter.
71	N505	1	250k	PCB			12	12	300m	-54	65	K015		Driver Circuit.
72	N506	1	250k	PCB	5.6	12	12	12	600m	-54	65			Driver Circuit.
73	N507	1	250k	PCB	5.6	12	12	12	3.0	-54	65	K017		Driver Circuit.
74	Q426	1	250k	PCB	.10	-.10	6.0	6.0	360m	-20	65			Voltage Comparator.
75	ADC8H	1	750k†	3DM			15	15	1.2 %	0	70	K0115	M215	8 bits; Conversion time, 12us max.
76	ADC10H	1	750k†	3DM			15	15	1.2 %	0	70	K0115	M215	10 bits; Conversion time, 18us max.
77	ECL2536	1	1.0M	MON	.15%	-.15*	3.2	4.8	205m	0	75	K0116	M117m	tpd 6.5 max;HLL-TO-ECL and ECL-TO-HCL.
78	ECL2537	1	1.0M	MON	.15%	-.15*	3.2	1.32	142m	0	75	K0117	M117m	tpd 5.0 max;HLL-TO-ECL and ECL-TO-HCL.
79	5176	1	1.0M	3DM			12	12	720m	0	50			Voltage-To-Frequency Transducer
80	321	2			2.6%	.50*	0.0	15	375m†	0	70		M189	10-bits;Settles in 750ns.
81	722-33-3M	2			2.5	.40	0.0	6.0	250m	-20	85	K0252	FP59	10 bit current source;also analog to dig.
82	722-34-3M	2			2.5	.40	0.0	6.0	250m	-20	85	K0252	FP59	10 bit current source;also analog to dig.
83	CMDA1	2			1.8%	.70*	15	0.0		0	75	K0240	M145	Ladder switches for D/A converters.
84	CMDA1A	2			1.8%	.70*	15	0.0		0	75	K0240	M145	Ladder switches for D/A converters.
85	DA14	2			0.0	-12	.12	6	130m	-10	55	K0210	CB33	1 Ckt 4 bit Binary or BCD.
86	DA18	2			0.0	-12	.12	6	260m	-10	55	K0210	CB33	2Ckt-dual 4 bit or 8 bit;Binary or BCD.
87	DAC8Q	2			2.0%	.80*	15	15	900m	0	70	K0259	CB61	8bits;output Z; 20kΩ;TC,±7.0ppm°/Cmax.
88	DAC8QET	2			2.0%	.80*	15	15	900m	-55	125	K0259	CB61	8bits;output Z,20kΩ;TC±7.0ppm°/Cmax.
89	DAC8TB	2			2.6	.50	15	15		0	70		CB37d	Multi-option Converters.
90	DAC10Q	2			2.0%	.80*	15	15	900m	0	70	K0259	CB61	10bits;output Z,20kΩ;TC,±7.0ppm°/Cmax.
91	DAC10QET	2			2.0%	.80*	15	15	900m	-55	125	K0259	CB61	10bits;output Z,20kΩ;TC±7.0ppm°/Cmax.
92	DAC10TB	2			2.6	.50	15	15		0	70		CB37d	Multi-option Converters.
93	DAC12Q	2			2.0%	.80*	15	15	900m	0	70	K0259	CB61	12 bits;Output Z,20kΩ;TC ±7.0ppm°/C max.
94	DAC12QET	2			2.0%	.80*	15	15	900m	-55	125	K0259	CB61	12bits;output Z,20kΩ;TC±7.0ppm°/Cmax.
95	DAC12TB	2			2.6	.50	15	15		0	70		CB37d	Multi-option Converters.
96	DAC14R	2			2.0	0.0	15	15		20	40		CB57	High resolution converters.
97	MDA8LB	2			2.0	.80	15	15		0	70		M179	Binary;Resolution 12 Bits.
98	MDA8LD	2			2.0	.80	15	15		0	70		M179	BCD;Resolution 12 bits.
99	MDA8UB	2			2.6	.50	15	15		0	70		M178	Binary; Resolution 12 Bits.
100	MDA8UD	2			2.6	.50	15	15		0	70		M178	BCD;Resolution 12 bits.
101	MDA10LB	2			2.0	.80	15	15		0	70		M179	Binary;Resolution 12 Bits.
102	MDA10UB	2			2.6	.50	15	15		0	70		M178	Binary;Resolution 12 Bits.
103	MDA12LB	2			2.0	.80	15	15		0	70		M179	Binary;Resolution 12 Bits.
104	MDA12LD	2			2.0	.80	15	15		0	70		M179	BCD;Resolution 12 bits.
105	MDA12UB	2			2.6	.50	15	15		0	70		M178	Binary;Resolution 12 Bits.
106	MDA12UD	2			2.6	.50	15	15		0	70		M178	BCD;Resolution 12 bits.
107	MIDA42001	2			2.0%	.80*	15	15	600m%	-30	100		M249	8 bit;Conversion speed 1.5us;Acc. ±1/8LSB.
108	MIDA42002	2			2.0%	.80*	15	15	600m%	0	70		M249	8 bit;Conversion speed 1.5us;Acc. ±1/8LSB.
109	MIDA42003	2			2.0%	.80*	15	15	600m%	-30	100		M249	8 bit;Conversion speed 2.5us;Acc. ±1/8LSB.
110	MIDA42004	2			2.0%	.80*	15	15	600m%	0	70		M249	8 bit;Conversion speed 2.5us;Acc. ±1/8LSB.

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) MAX. OPERATING FREQ. (3) PROCESS (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL '1' (V)	LOGIC LEVEL '0' (V)	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	MAX. TOTAL PKG. DISS. (W)	TEMP. LOW °C	TEMP. HI °C	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO	GENERAL DESCRIPTION
1	MIDA42005	2			2.0%	.80*	15	15	600m%	-30	100		M249	8 bit;Conversion speed 20us;Acc. ±1/8LSB.
2	MIDA42006	2			2.0%	.80*	15	15	600m%	0	70		M249	8 bit;Conversion speed 20us;Acc. ±1/8LSB.
3	MIDA42007	2			2.0%	.80*	15	15	600m%	-30	100		M249	8 bit;Conversion speed 20us;Acc. ±1/8LSB.
4	MIDA42008	2			2.0%	.80*	15	15	600m%	0	70		M249	8 bit;Conversion speed 20us;Acc. ±1/8LSB.
5	MIDA42011	2			2.0%	.80*	15	15	600m%	-30	100		M249	10Bit;Conversion speed 1.5us;Acc±1/8 LSB.
6	MIDA42012	2			2.0%	.80*	15	15	600m%	0	70		M249	10Bit;Conversion speed 1.5us;Acc±1/8 LSB.
7	MIDA42013	2			2.0%	.80*	15	15	600m%	-30	100		M249	10Bit;Conversion speed 2.5us;Acc±1/8 LSB.
8	MIDA42014	2			2.0%	.80*	15	15	600m%	0	70		M249	10Bit;Conversion speed 2.5us;Acc±1/8 LSB.
9	MIDA42015	2			2.0%	.80*	15	15	600m%	-30	100		M249	10 bit;Conversion speed 20us;Acc. ±1/8LSB.
10	MIDA42016	2			2.0%	.80*	15	15	600m%	0	70		M249	10 bit;Conversion speed 20us;Acc. ±1/8LSB.
11	MIDA42017	2			2.0%	.80*	15	15	600m%	-30	100		M249	10 bit;Conversion speed 20us;Acc. ±1/8LSB.
12	MIDA42018	2			2.0%	.80*	15	15	600m%	0	70		M249	10 bit;Conversion speed 20us;Acc. ±1/8LSB.
13	846	2		MOH	2.0%	5.0*	15	15		-20	85		M195	8 bit high speed D/A conv.
14	847	2		MOH	-9.0%	-2.0*	27	15		-20	85		M196	10 bit D/A converter.
15	5660BM	2		MOH	2.0%	.60*	12	12		-55	125			8 Channel Binany Multiplexer.
16	5660CM	2		MOH	2.0%	.60*	12	12		0	70			8 Channel Binany Multiplexer.
17	5661BM	2		MOH	2.0%	.60*	20	15		-55	125			8 Channel Binany Multiplexer.
18	5661CM	2		MOH	2.0%	.60*	20	15		0	70			8 Channel Binany Multiplexer.
19	5662BM	2		MOH	2.0%	.60*	12	12		-55	125			12 Channel Multiplexer.
20	5662CM	2		MOH	2.0%	.60*	12	12		0	70			12 Channel Multiplexer.
21	5663BM	2		MOH	2.0%	.60*	20	15		-55	125			12 Channel Multiplexer.
22	5663CM	2		MOH	2.0%	.60*	20	15		0	70			12 Channel Multiplexer.
23	PC403	2		MOH	3.0%	.40%	15	20		-55	125		FP49	1 ckt; tr 250ns; tf 250ns.
24	UD4146	2		MOH	2.0		0.0	7.0		-55	100	K0250	TO90	Digital to Analog Ladder Switches.
25	UD4156	2		MOH	2.0		0.0	7.0		-55	100	K0250	TO90	Digital to Analog Ladder Switches.
26	DA101	2		PCB	-6.0	0.0	12	12	1.4	-45	65	K021	CB1	10 in-1 out;Res.Mtx;V out-10V;Ref.V Req.
27	DA102	2		PCB	-6.0	0.0	12	12	1.4	-45	65	K021	CB1	DA101 without Resistor Matrix.
28	320	2		TFH	2.6%	.50*	15	15	375m†	-25	70		M189	10-bits;Settles in 750ns.
29	325	2		TFH	2.6%	.50*	15	15	375m†	-25	70		M190	10-bits;Settles in 750ns.
30	325BCD	2		TFH	2.6%	.50*	15	15	750m%	0	70		M231	3 Decades BCD;Acc. vs. tem. 50ppm/°C.
31	325BP8	2		TFH	2.6%	.50*	15	15	750m%	0	70		M231	8 bits;Acc. vs. temp. 50ppm/°C.
32	325BP10	2		TFH	2.6%	.50*	15	15	750m%	0	70		M231	10 bits;Acc. vs. temp. 50ppm/°C.
33	330-10	2		TFH	2.6%	.50*	15	15	750m%	0	70		M231	10 bits;Acc. vs. temp. 20ppm/°C.
34	330-11	2		TFH	2.6%	.50*	15	15	750m%	0	70		M231	11 bits;Acc. vs. temp. 20ppm/°C.
35	330-12	2		TFH	2.6%	.50*	15	15	750m%	0	70		M231	12 bits;Acc. vs. temp. 20ppm/°C.
36	340	2		TFH	2.6%	.50*	15	15	750m%	0	70		M189a	10 bits;Settling time 200ns max.
37	340E	2		TFH			15	15		-25	70		M190b	11 bits W/external reference.
38	350	2		TFH	2.6%	.50*	15	15	750m%	0	70		M190b	11 bits;Settling time 200ns max.
39	350E	2		TFH			15	15		-25	70		M190b	11 bits W/external reference.
40	360	2		TFH	2.6%	.50*	15	15	750m%	0	70		M190b	12 bits;Settling time 200ns max.
41	301	2		3DM	5.0	.50	15	15		0	85		M⧄	3 decade BCD, Multiplying D to A
42	302	2		3DM	5.0	.50	15	15		0	85		M⧄	12 Bit Binary, Multiplying D to A
43	DAC329BCD	2		3DM	.50*	2.5%	15	15	150m%	0	70	K0281	M281	8-Bit Binary or 2 Decade BCD Coding.
44	DAC329I	2		3DM	2.5%	.50*	15	15	450m%	0	70	K0282	M282	8-Bit Binary or 2 Decade BCD Coding.
45	DAC329IBCD	2		3DM	2.5%	.50*	15	15	150m%	0	70	K0282	M282	8-Bit Binary or 2 Decade BCD Coding.
46	7400	2	10k	MOH	5.0	0.0	15	15	60m	-55	85			7-Bit Parallel Conv.
47	7404	2	10k	MOH	5.0	0.0	15	15	600m	-55	85			8 Bit Parallel Converter.
48	5182	2	10k	3DM			12	12	480m	0	50			Frequency to Voltage Transducer.
49	5183	2	10k	3DM			12	12	480m	0	50			Frequency to Voltage Transducer.
50	7401	2	100k	MOH	10	10	15	15	120m	-55	85			1-Bit Serial Conv.
51	PL4S02	2	100k	MON	-9.0%	-3.0*	30	0.0	75m	-55	125	K0211	ZB83	4 Ckt;Closed when enable 1,2,A are 1.
52	MEM2008	2	100k	MOS			30	.50	200m	-55	125	K0241	TO78	Series Shunt Chopper;Id 15mA;Ron 6.0kΩ.
53	MEM5015	2	100kΔ	MOS	-10%	-2.0*	27	0.0	80m	-55	85		M118	P-CH Mx;Ron 2.0kΩ max;ton 2.5usec.
54	D4076	2	100k	PCB	2.0%	.95*	22	22	2.7	0	50		CB⧄	D/A Converter;8 Bit (1 Card,3 Card Space).
55	D4077	2	100k	PCB	2.0%	.95*	22	22	2.7	0	50		CB⧄	D/A Converter;12 Bit (1 Card,3 Card Space)
56	G518	2	100k	PCB			12	6.0	400m	-55	71		CB16	
57	GA518	2	100k	PCB			12	6.0	400m	-55	71		CB16	
58	PC401	2	200k	MOH	3.0	0.0	0.0	45		-55	125	K0219	FP8j	1 Ckt;tr 50nsec.tf 100nsec.
59	PC402	2	200k	MOH	3.0	0.0	0.0	45		-55	125	K0220	FP8k	1 Ckt.
60	GDA1-.2	2	200k	PCB	-10	0.0	12	6.0	672m	0	55	K022	CB15	8 Bit;8 421BCD or Bin.In;0 to -5Vout.
61	GDA2-.2	2	200k	PCB	-10	0.0	12	6.0	1.1	0	55	K023	CB15	10 Bit; Binary In;0 to -5Vout.
62	SC101	2	200k	PCB	-10%	2.0*	27	15	312m	0	70			MOS;Zout 100mΩ;td 500nsec. min.
63	DAC2Z	2	250k	PCB	0.0	-6.0	15	6.0	1.2	0	50	K024	CB14	Vout 5.0mV to 10mV;Zout 510Ω.
64	IDA9001	2	250k	PCB			10	10	25m	0	75	K0218	CB51	Analog Voltage -10V and 10V.
65	488Δ	2	300k	PCB	-6.8	0.0	12	12	1.8	0	55	K025	CB24	Digital to Analog Converter.
66	DA3	2	300k	PCB	-10	0.0	12	20	1.4	0	55		CB10	4 Ckt;Vout 0.0 to ±3.0V ±50m%.
67	DA5	2	300k	PCB	-10	0.0	12	20	730m	0	55		CB10	2 Ckt;Out 0 to ±5.0V±.10%.
68	DA6	2	300k	PCB	-10	0.0	12	20	730m	0	55		CB10	2 Ckt;Out 0 to ±5.0V±1.0%.
69	3750	2	500k	MON	-9.0%	-2.0*	29	0.0	190m	-55	85		M132	10 Bit P-channel enhancement MOS.
70	MEM1051	2	500k	MOS	-10%	-2.0*	30	.30	35m	-55	85	K0235	TO87	4 Channel;Ron 400Ω max.
71	2107BE	2	1.0M	MOH			12	12		-55	125			SPST Analog Gate Switch.
72	2110BE	2	1.0M	MOH			18	18		-55	125			SPST Analog Gate Switch.
73	2114BF	2	1.0M	MOH			15	15		-55	125			SPDT Analog Gate Switch.
74	2126BG	2	1.0M	MOH			15	15		-55	125			SPDT Analog Gate Switch.
75	2128BG	2	1.0M	MOH			18	18		-55	125			Quad SPST Analog Gate Switch.
76	D108F	2	1.0M	MOS	20	5.0	0	15	750m	-55	125	K0247	FP59	8 Bit Multiplexer;Parallel In serial out
77	DG142L	2	1.0M	MOS	3.0	2.0	18	12	750m	-55	125	K0248	TO86	Differential Input Driver
78	DG143L	2	1.0M	MOS	3.0	2.0	18	12	750m	-55	125	K0249	TO86	Differential Input Driver
79	DG144L	2	1.0M	MOS	3.0	2.0	18	12	750m	-55	125	K0249	TO86	Differential Input Driver
80	DG145L	2	1.0M	MOS	3.0	2.0	18	12	750m	-55	125	K0248	TO86	Differential Input Driver
81	DG146L	2	1.0M	MOS	3.0	2.0	18	12	750m	-55	125	K0249	TO86	Differential Input Driver
82	4678	2	1.0M	PCB	3.0	0.0	15	10	2.6	-20	55	K028	CB30	5 ckt;Out, 0 to-10V to Drive R Ladder.
83	4679	2	1.0M	PCB	3.0	0.0	15	10	707m	-20	55	K028a	CB30	4 ckt;Out, 0 to-10V to Drive R Ladder.
84	DA4	2	1.0M	PCB	-10	0.0	12	20	1.4	0	55		CB10	4 Ckt; Out 0 To±.10V±.05%
85	5184	2	1.0M	3DM			12	12	480m	0	50			Frequency-To-Voltage Transducer
86	IAG0286	2	5.0M	PCB	2.0%	1.1*	0.0	5.0	4.5	0	75		CB⧄	Dual 5 Channel Analog Gate-MOS.
87	LN30	2	5.0M	PCB	-6.0	0.0	18	12	100m	-20	55	K0216	CB13a	Two 4-Bit; Conv. Acc. 2%.
88	LN30A	2	5.0M	PCB	-6.0	0.0	18	12	100m	-20	55	K0216	CB13a	Two 4-Bit; Conv.Acc. 1% adjustable.
89	LN330	2	5.0M	PCB	.06*	6.0	6	6	50m	0	55			Six Bit; Output ±5V max.
90	LP30	2	5.0M	PCB	-6.0	0.0	18	12	800m	-20	55	K0214	CB13a	4 Bit; Reference -1V to -10V.DC±.04%.
91	LP31	2	5.0M	PCB	-6.0	0.0	18	12	1.0	-20	55	K0215	CB13a	6 Bit; Reference -1V to -10V.DC±.10%.
92	LP330	2	5.0M	PCB	6.0	1.0*	24	24	400m	0	55	K0222		Four Bit
93	LP331	2	5.0M	PCB	6.0	1.0*	24	24	250m	0	55	K0222a		Six Bit
94	MN201	2	5.0M	TFH	2.0%	.80*	0.0	15	100m	-55	100	K0253	FP62	4 Bit D/A Converter.
95	1677	2	10M	PCB	3.0	0.0	15	10	812m	-20	55	K029	CB30	4 ckt.Level Amp;DRV Divider Network.
96	DT12-1	2	10M	PCB	4.0	0.0	8	8		5	71	K0217	CB37a	Two 4-Bit.
97	DT12-2	2	10M	PCB	4.0	0.0	8	8		5	71	K0217a	CB37a	Two 4-Bit.
98	DT13-1	2	10M	PCB	4.0	0.0	8	8		5	71	K0217b	CB37a	Two 6-Bit.
99	DT13-2	2	10M	PCB	4.0	0.0	8	8		5	71	K0217c	CB37a	Two 6-Bit.
100	CAG4A	2	10M	TFH	2.8	.50	15	15		-55	125	K0233	TO74	Ron-40 ohms max;Vsig-9V.
101#	FJH371	3			2.0%	.80*	0.0	5.0	150m†	0	70	K0354	M200f	tpd 15ns max;Noise Rejection 400mV min.
102	6M10G	3		MON	3.3	.25†	0.0	5.0	90m	-55	125		TO84	Full Adder.
103	6M10K	3		MON	3.3	.25†	0.0	5.0	90m	-55	125		TO116	Full Adder.
104	6M11G	3		MON	3.3	.25†	0.0	5.0	90m	-55	125		TO84	Full Adder.
105	6M11K	3		MON	3.3	.25†	0.0	5.0	90m	-55	125		TO116	Full Adder.
106	6M12D	3		MON	3.3	.25†	0.0	5.0	90m	0	75		TO116	Full Adder.
107	6M12G	3		MON	3.3	.25†	0.0	5.0	90m	0	75		TO84	Full Adder.
108	6M13D	3		MON	3.3	.25†	0.0	5.0	90m	0	75		TO116	Full Adder.
109	6M13G	3		MON	3.3	.25†	0.0	5.0	90m	0	75		TO84	Full Adder.
110	6M20G	3		MON	3.3	.25†	0.0	5.0	125m	-55	125		TO84	Dependent Carry Fast Adder.

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) MAX. OPERATING FREQ.
(3) PROCESS (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	2 MAX OPER-ATING FREQ. (Hz)	3 PRO-CESS	LOGIC LEVEL '1' (V)	LOGIC LEVEL '0' (V)	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	MAX. TOTAL PKG. DISS. (W)	TEMP. LOW °C	TEMP. HI °C	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO	GENERAL DESCRIPTION
1	6M20K	3		MON	3.3	.25†	0.0	5.0	125m	-55	125		TO116	Dependent Carry Fast Adder.
2	6M21G	3		MON	3.3	.25†	0.0	5.0	125m	-55	125		TO84	Dependent Carry Fast Adder.
3	6M21K	3		MON	3.3	.25†	0.0	5.0	125m	-55	125		TO116	Dependent Carry Fast Adder.
4	6M22D	3		MON	3.3	.25†	0.0	5.0	125m	0	75		TO116	Dependent Carry Fast Adder.
5	6M22G	3		MON	3.3	.25†	0.0	5.0	125m	0	75		TO84	Dependent Carry Fast Adder.
6	6M23D	3		MON	3.3	.25†	0.0	5.0	125m	0	75		TO116	Dependent Carry Fast Adder.
7	6M23G	3		MON	3.3	.25†	0.0	5.0	125m	0	75		TO84	Dependent Carry Fast Adder.
8	6M30G	3		MON	3.3	.25†	0.0	5.0	125m	-55	125		TO84	Independent Carry Fast Adder.
9	6M30K	3		MON	3.3	.25†	0.0	5.0	125m	-55	125		TO116	Independent Carry Fast Adder.
10	6M31G	3		MON	3.3	.25†	0.0	5.0	125m	-55	125		TO84	Independent Carry Fast Adder.
11	6M31K	3		MON	3.3	.25†	0.0	5.0	125m	-55	125		TO116	Independent Carry Fast Adder.
12	6M32D	3		MON	3.3	.25†	0.0	5.0	125m	0	75		TO116	Independent Carry Fast Adder.
13	6M32G	3		MON	3.3	.25†	0.0	5.0	125m	0	75		TO84	Independent Carry Fast Adder.
14	6M33D	3		MON	3.3	.25†	0.0	5.0	125m	0	75		TO116	Independent Carry Fast Adder.
15	6M33G	3		MON	3.3	.25†	0.0	5.0	125m	0	75		TO84	Independent Carry Fast Adder.
16	6M40G	3		MON	3.3	.25†	0.0	5.0	25m	-55	125		TO84	Carry Decoder.
17	6M40K	3		MON	3.3	.25†	0.0	5.0	25m	-55	125		TO116	Carry Decoder.
18	6M41G	3		MON	3.3	.25†	0.0	5.0	25m	-55	125		TO84	Carry Decoder.
19	6M41K	3		MON	3.3	.25†	0.0	5.0	25m	-55	125		TO116	Carry Decoder.
20	6M42D	3		MON	3.3	.25†	0.0	5.0	25m	0	75		TO116	Carry Decoder.
21	6M42G	3		MON	3.3	.25†	0.0	5.0	25m	0	75		TO84	Carry Decoder.
22	6M43D	3		MON	3.3	.25†	0.0	5.0	25m	0	75		TO116	Carry Decoder.
23	6M43G	3		MON	3.3	.25†	0.0	5.0	25m	0	75		TO84	Carry Decoder.
24#	5482-1-6A	3		MON	2.0%	.80*	0.0	5.0		-55	125	K0314	M157	2-bit binary full adder.
25#	7482-9-6A	3		MON	2.0%	.80*	0.0	5.0		0	70	K0314	M157	2-bit binary full adder.
26#	9304-1	3		MON	2.4%	.4*Δ	0	5	150m	-55	125			Dual Full Adder (TTL).
27#	9304-1-3L	3		MON	1.7%	.90*	0.0	5.0	150m†	-55	125	K0318	FP47a	Dual TTL; Prop delay 28ns.
28#	9304-9	3		MON	2.4%	.45*Δ	0	5	150m	0	75			Dual Full Adder (TTL).
29#	9304-9-3L	3		MON	1.8%	.85*	0.0	5.0	150m†	0	75	K0318	FP47a	Dual TTL; Prop delay 28ns.
30	MWuL908	3		MON	1.1	.20	0.0	8.0	10m	-55	125	K0311	CN37	1 ckt;RTL Logic;FunIn-4;Fanout 7.
31	PD7482	3		MON	2.0%	.80*	0.0	5.0	406m	0	75	K0336	TO116	2 bit; tpD 40ns.
32	PD7483	3		MON	2.0%	.80*	0.0	5.0	896m	0	75	K0320	M200a	4 bit;tpd 60ns.
33	PL908#1	3		MON	.90	.15	0.0	3.0	10m	-55	125	K044	CN13	Max. Fan Out 7.
34	PL908#2	3		MON	.90	.15	0.0	3.0	10m	-55	125	K044	FP2	Max. Fan Out 7.
35	PL9908-21	3		MON			0	8	10m†	-55	125	K0311	ZB155	1 Ckt; Modulo 2 Addition.
36	PL9908-23	3		MON			0	8	10m†	0	75	K0311	ZB155	1 Ckt; Modulo 2 Addition.
37	RL10P	3		MON	3.5	.20†	0	5	90m	-55	125		M105k	Fast Full Adder.
38	RL11P	3		MON	3.5	.20†	0	5	90m	-55	125		M105k	Fast Full Adder.
39	RL12P	3		MON	3.5	.20†	0	5	90m	0	75		M105k	Fast Full Adder.
40	RL13P	3		MON	3.5	.20†	0	5	90m	0	75		M105k	Fast Full Adder.
41	RL20P	3		MON	3.5	.20†	0	5	125m	-55	125		M105k	Dependent and Independent carryfast adder.
42	RL21P	3		MON	3.5	.20†	0	5	125m	-55	125		M105k	Dependent and Independent carryfast adder.
43	RL22P	3		MON	3.5	.20†	0	5	125m	0	75		M105k	Dependent and Independent carryfast adder.
44	RL23P	3		MON	3.5	.20†	0	5	125m	0	75		M105k	Dependent and Independent carryfast adder.
45	RL30P	3		MON	3.5	.20†	0	5	125m	-55	125		M105k	Dependent and Independent carryfast adder.
46	RL31P	3		MON	3.5	.20†	0	5	125m	-55	125		M105k	Dependent and Independent carryfast adder.
47	RL32P	3		MON	3.5	.20†	0	5	125m	0	75		M105k	Dependent and Independent carryfast adder.
48	RL33P	3		MON	3.5	.20†	0	5	125m	0	75		M105k	Dependent and Independent carryfast adder.
49	SM10	3		MON	3.3	.25†	0.0	5.0	90m	-55	125		ZB100	Full Adder.
50	SM11	3		MON	3.3	.25†	0.0	5.0	90m	-55	125		ZB100	Full Adder.
51	SM12	3		MON	3.3	.25†	0.0	5.0	90m	0	75		ZB100	Full Adder.
52	SM13	3		MON	3.3	.25†	0.0	5.0	90m	0	75		ZB100	Full Adder.
53	SM20	3		MON	3.3	.25†	0.0	5.0	125m	-55	125		ZB100	Dependent Carry Fast Adder.
54	SM21	3		MON	3.3	.25†	0.0	5.0	125m	-55	125		ZB100	Dependent Carry Fast Adder.
55	SM22	3		MON	3.3	.25†	0.0	5.0	125m	0	75		ZB100	Dependent Carry Fast Adder.
56	SM23	3		MON	3.3	.25†	0.0	5.0	125m	0	75		ZB100	Dependent Carry Fast Adder.
57	SM30	3		MON	3.3	.25†	0.0	5.0	125m	-55	125		ZB100	Independent Carry Fast Adder.
58	SM31	3		MON	3.3	.25†	0.0	5.0	125m	-55	125		ZB100	Independent Carry Fast Adder.
59	SM32	3		MON	3.3	.25†	0.0	5.0	125m	0	75		ZB100	Independent Carry Fast Adder.
60	SM33	3		MON	3.3	.25†	0.0	5.0	125m	0	75		ZB100	Independent Carry Fast Adder.
61	SM40	3		MON	3.3	.25†	0.0	5.0	25m	-55	125		ZB100	Carry Decoder.
62	SM41	3		MON	3.3	.25†	0.0	5.0	25m	-55	125		ZB100	Carry Decoder.
63	SM42	3		MON	3.3	.25†	0.0	5.0	25m	0	75		ZB100	Carry Decoder.
64	SM43	3		MON	3.3	.25†	0.0	5.0	25m	0	75		ZB100	Carry Decoder.
65	SN54LS83N	3		MON	2.0%	.90*	0.0	5.0	75m†	-55	125	K0320	M117	4-Bit Binary Full Adder.
66	SN5480	3		MON	2.0%	.80*	0	7	21m†	-55	125	K0313	TO84	Gated Full Adder
67	SN5482	3		MON	2.0%	.80*	0	5.5	35m†	-55	125	K0314	TO84	2-Bit Binary Full Adder
68	SN7480	3		MON	2.0%	.80*	0	7	21m†	0	70	K0313	TO84	Gated Full Adder
69	SN7482	3		MON	2.0%	.80*	0	5.3	35m†	0	70	K0314	TO84	2-Bit Binary Full Adder
70	SN17908	3		MON	.81*	.20*	0.0	8.0	250m	-55	125	K0311		1ckt;RTL;Fan Out 7.
71	U5B990828	3		MON			0.0	3.6		15	55	K0311	TO99	1 ckt;Fan Out 7.
72	U5F990828	3		MON			0.0	3.6		15	55	K0311	TO100	1 ckt;Fan Out 7.
73	U5F990829	3		MON			0.0	3.6		0	70	K0311	TO100	1 ckt;Fan Out 7.
74	U8A990828	3		MON			0.0	3.6		15	55	K0311	CN34	1 ckt;Fan Out 7.
75	U8A990829	3		MON			0.0	3.6		0	70	K0311	CN34	1 ckt;Fan Out 7.
76	US0908D	3		MON			0.0	8.0	250m	-55	125	K0311	TO78	1 Ckt;RTL;Fan in 4;Fan Out 4.
77	US0908E	3		MON			0.0	8.0	250m	-55	125	K0311	TO91	1 ckt;RTL;Fan Out 4;Fan In 4.
78	CD4008	3		MOS	10	0.0	0.0	10	100u	-55	125			Four-Bit with Parrallel Carry-Out Output.
79	CD4008D	3		MOS	9.99%	.10†*	0.0	10	100u%	-55	125	K0326	Δ001AE	4Bit with Parallel carry out;tpD800ns max.
80	CD4008E	3		MOS	9.99%	.01†*	0.0	10	1.0m%	-40	80	K0335	Δ001AC	4-bit;tpD 800ns max;Cap 10pF.
81#	FDH106	3		MOS	-2.0%	-9.0*	28	0.0	35m†	-55	85	K0339	M193	Arithmetic/Logic Array;tpd 250ns typ.
82#	GDH146	3		MOS	-10%	-2.0*	-27	-13		-55	85	K0344	TO87	2 Ckts; tpd 500ns max.
83#	GDH146A	3		MOS	-10%	-2.0*	-27	-13		-55	85	K0344	M105an	2 Ckts; tpd 500ns max.
84#	M58202P	3		MOS	-9.0%	-3.5*	30	.30	160m†	0	75	K0324	M186	MSI BCD Delayed Adder.
85#	M58202S	3		MOS	-9.0%	-3.5*	30	.30	160m†	-10	75	K0324	M192b	MSI BCD Delayed Adder.
86	MEM1000	3		MOS	-10%	-2*	27	0		-55	85	K0316	TO87	2 Ckts;Zout-3kohms;tpd-500ns.
87	PL4A01C	3		MOS	-9.0%	-3.0*	27	0.0	189m%	0	70	K0327	FP64	MOS Binary/BCD 4-Bit Adder.
88	SCL4008D	3		MOS	9.99%	.10†*	0.0	10	100u%	-55	125	K0326	Δ001AE	4 Bit with parallel carry;tpd 800ns max.
89	SCL4008F	3		MOS	9.99%	.10†*	0.0	10	100u%	-55	125	K0326	Δ004AG	4 Bit with Parallel carry;tpd 800ns max.
90	AS11-1	3	100k	3DM	-10	0.0	12	12	120m	-35	65	K036	M15	1ckt;Adder-Subtractor w/carry/borrow.
91	CT441-2	3	250k	PCB	-3.0	-11	12	12	880m	-54	71		CB16	2 ckts.
92	T630	3	250k	PCB	-3.0	-11	12	12	32m	-45	65			Pulse and Gate - Triple Follower Emitter.
93	SA357	3	250k	PCM	0.0	-6.0	12	6.0	2.1	-55	71	K037	CB36	Full Adder/Subtractor and 2 s Complement.
94	T441	3	250k	3DM	-3.0	-11	12	12	440m	-54	71	K034	M17	Built-in amp. ckt. minimizes level shift.
95	MC25	3	1.0M	PCB	-6.2	0.0	18	18	7.8	0	55	K0310	CB25	1 Ckt;Tr 100nsec;If 100nsec.
96	UC508	3	1.0M	PCB	0.0	6.0	12	12	1.3	-55	125	K033	CB16	
97	AP320	3	2.0M	MON	6.3	0.0	0.0	6.0	930m	0	55		CB13	8 two-input half adder;Cir.dly.150ns max.
98	SA337	3	2.0M	PCM	0.0	6.0	6	12	900m	-55	125	K037a	CB36	Full Adder/Subtractor and 2 s Complement
99	SA367	3	2.0M	PCM	0.0	-6.0	12	6	1.3	-55	71	K037	CB36	Full Adder/Subtractor and 2 s Complement
100	AS21-1	3	2.0M	3DM	10	0.0	12	12	100m	-35	125	K036a	M16	1ckt;Adder-Subtractor w/carry/borrow.
101	IFA0214	3	5.0M	PCB	2.0%	1.1*	0	5	230m	0	75	K0312	CB51	Two Internal flip flops available.
102	NC1008	3	8.0M	MON	.82	.57	2.7	3.3	10m	-55	125	K035	CN29	Adder.
103	NC2008	3	8.0M	MON	.82	.57	2.7	3.3	10m	0	100	K035	CN29	Adder.
104	NC3008	3	8.0M	MON	.82	.57	2.7	3.3	10m	15	55	K035	CN29	
105	2NC1008	3	10M	MON	.75	.22	0.0	4.0	10m	-55	125	K035	CN19	Adder.
106	2NC2008	3	10M	MON	.80	.24	0.0	4.0	10m	0	100	K035	CN19	Adder.
107	2NC3008	3	10M	MON	.85	.26	0.0	3.6	10m	15	65	K035	CN19	Adder.
108	2NC4008	3	10M	MON	.80	.24	0.0	4.0	10m	0	75	K035	CN19	Adder.
109	LT67	3	10M	PCB	4.0	0.0	0	8	2.1	5	71		CB37a	4 Independent ckts;Fan Out-14.
110	UC708	3	10M	PCB	0.0	6.0	12	12	2.2	-55	125	K032	CB16	

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) MAX. OPERATING FREQ.
(3) PROCESS (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL		POWER SUPPLY SPAN		MAX. TOTAL PKG. DISS. (W)	TEMP.		DRAWINGS		GENERAL DESCRIPTION
					'1' (V)	'0' (V)	NEG. (V)	POS. (V)		LOW °C	HI °C	LOGIC DWG. No	OUTLINE DWG. No Δ=MO	
1	6M90G	3	35M	MON	3.3	.25†	0	5	120m	-55	125		TO84	Decade Divider.
2	6M90K	3	35M	MON	3.3	.25†	0	5	120m	-55	125		TO116	Decade Divider.
3	6M91G	3	35M	MON	3.3	.25†	0	5	120m	-55	125		TO84	Decade Divider.
4	6M91K	3	35M	MON	3.3	.25†	0	5	120m	-55	125		TO116	Decade Divider.
5	6M92D	3	35M	MON	3.3	.25†	0	5	120m	0	75		TO116	Decade Divider.
6	6M92G	3	35M	MON	3.3	.25†	0	5	120m	0	75		TO84	Decade Divider.
7	6M93D	3	35M	MON	3.3	.25†	0	5	120m	0	75		TO116	Decade Divider.
8	6M93G	3	35M	MON	3.3	.25†	0	5	120m	0	75		TO84	Decade Divider.
9	MC1019L	3	60M	MON	-.75	-1.6	8	0	110m	0	75	K0317	TO116	ECT;Carry tpd-4ns;F.O.-25.
10	132AE#	4		MON	.80	.25	0	3	48m	-55	125	K042		Fan In-4;Max. FanOut-10;Prop. Delay-22ns.
11	141AE	4		MON	.80	.25	0	3	48m	-55	125	K042		Fan In-4;Max.Fan Out-10;Prop.Delay-22ns
12	141AH	4		MON	.80	.25	0	3	48m	-55	125	K042		Fan In-4;Max.Fan Out-10;Prop.Delay-22ns
13	141BE	4		MON	.80	.25	0	3	48m	-55	125	K042		Fan In-4;Max.Fan Out-10;Prop.Delay-22ns
14	141BH	4		MON	.80	.25	0	3	48m	-55	125	K042		Fan In-4;Max.Fan Out-10;Prop.Delay-22ns
15	141CE	4		MON	.80	.25	0	3	48m	0	70	K042	CN10	Fan In-4;Max.Fan Out-10;Prop.Delay-22ns
16	1134A	4		MON	.75	.83	0			-55	125	K0418	CN40	4 Input.
17	2134A	4		MON	.75	.83	0			-55	125	K0418	FP20	4 Input.
18	H11001	4		MON	.80	.25	0.0	3.0	48m	-55	125	K042	CN10	Fan In 4;Fan Out 10 max;TpD 22ns.
19	H11004	4		MON	.80	.25	0.0	3.0	48m	0	70	K042	CN10	Fan In 4;Max.Fan Out 10;TpD 22ns.
20	H11008	4		MON	.80	.25	0.0	3.0	48m	-55	125	K042	CN10	Fan In 4;Fan Out 10 max;TpD 22ns.
21	H41001	4		MON	.80	.25	0.0	3.0	48m	-55	125	K042	FP26c	Fan In 4;Fan Out 10 max;TpD 22ns.
22	H41008	4		MON	.80	.25	0.0	3.0	48m	-55	125	K042	FP26c	Fan In 4;Fan Out 10 max;TpD 22ns.
23	I11001	4		MON	.80	.25	0.0	3.0	48m	-55	125	K042	CN11	Fan In 4; Max Fan Out 10; TpD 22ns.
24	I11008	4		MON	.80	.25	0.0	3.0	48m	-55	125	K042	CN11	Fan In 4; Max Fan Out 10; TpD 22ns.
25	MWuL912	4		MON	1.1	.20	0.0	3.0	8.0m	-55	125	K046	CN37	And/or Gate with Inverter.
26	PL904#1	4		MON	1.0	.15	0.0	3.0	53m	-55	125	K047	CN13	And/or Gate W/Inverter.
27	PL904#2	4		MON	1.0	.15	0.0	3.0	53m	-55	125	K047	FP2	And/or Gate W/Inverter.
28	PL912#1	4		MON	.90	.15	0.0	3.0	8.0m	-55	125	K046	CN13	
29	PL912#2	4		MON	.90	.15	0.0	3.0	8.0m	-55	125	K046	FP2	
30	PL981	4		MON	.90	.15	0.0	4.0	8.0m	-55	125	K046	FP2	TpD 30ns.
31	PL9605	4		MON	.82	.49	0	3	250m	-55	125	K0421	TO91	AND/OR Gate with two Inverters on.
32	PL9904	4		MON		.15	0.0	3.0	53m	-55	125	K047		
33	PL9908#1	4		MON	.90	.15	0.0	3.0	10m	-55	125	K044a	CN13	Max. Fan Out -7.
34	PL9908#2	4		MON	.90	.15	0.0	3.0	10m	-55	125	K044a	FP2	Max. Fan Out-7.
35	PL9912	4		MON	.90	.15	0.0	3.0	8.0m	-55	125	K046		
36	PL9912-21	4		MON			0	3	8.0m†	-55	125	K046a	ZB155	tr-80ns;toff-100ns.
37	PL9912-23	4		MON			0	3	8.0m†	0	75	K046a	ZB155	tr-80ns;toff-100ns.
38	PL9981	4		MON	.90	.15	0.0	4.0	8.0m	-55	125	K046	FP2	Tpd-30ns.
39	SN17912	4		MON	.81*	.20*	0.0	5.0	18m	-55	125	K046b		1ckt;RTL;Fan Out 7.
40	uL904#1	4		MON	1.1	.25	0	12	53m	-55	125	K0417	TO70	Half Adder.
41	uL904#2	4		MON	1.1	.25	0	12	53m	0	100	K0417	CN34	Half Adder.
42	U5B990428	4		MON			0.0	3.6		15	55	K047	TO99	Fan Out 29 each.
43	U5B991228	4		MON			0.0	3.6		15	55	K046	TO99	1 ckt;Fan Out 13.
44	U5F990428	4		MON			0.0	3.6		15	55	K047	TO100	Fan Out 29 each.
45	U5F990429	4		MON			0.0	3.6		0	70	K047	TO100	Fan Out 29 each.
46	U5F991228	4		MON			0.0	3.6		15	55	K046	TO100	1 ckt;Fan Out 13.
47	U5F991229	4		MON			0.0	3.6		0	70	K046	TO100	1 ckt;Fan Out 13.
48	U8A990428	4		MON			0.0	3.6		15	55	K047	CN34	Fan Out 29 each.
49	U8A990429	4		MON			0.0	3.6		0	70	K047	CN34	Fan Out 29 each.
50	U8A991228	4		MON			0.0	3.6		15	55	K046	CN34	1 ckt;Fan Out 13.
51	U8A991229	4		MON			0.0	3.6		0	70	K046	CN34	1 ckt;Fan Out 13.
52	US0912D	4		MON			0.0	8.0		-55	125	K046a	TO78	1 Ckt;RTL;Fan In 4;Fan Out 4.
53	US0912E	4		MON			0.0	8.0	250m	-55	125	K046a	TO91	1 ckt;RTL;Fan In 4;Fan Out 4.
54	UC1004B	4		TFH	6.0	0.0	8	15	130m	-55	125	K0425	M55	Fan Out-5;tpd-20nsec;tr-80nsec;tf-25nsec.
55	T424A	4	250k	3DM	-3.0	-11	12	0.0	190m	-54	71	K0410	M17	External Control Jumper for Add or Sub.
56	425Δ	4	300k	PCB	-6.8	0.0	12	12	2.5	0	55	K0411	CB24	Adder-Subtractor.
57	ADD2Z	4	1.0M	PCB	0.0	-6.0	15	6	1.0	0	50	K046	CB14	4Ckt; Combines to 2 Full Adders
58	ADD2M	4	1.0M	3DM	0.0	-6.0	15	6.0		0	50	K0414		1 Ckt.
59	EM2623	4	2.0M	3DM	0.0	-6.0	12	6	438m	-55	71	K0420	M62a	
60	341AG	4	4.0M%	MON	11	1.5	0.0	12		-55	125	K0422	CN50	Dual Half Adder with Expander Inputs.
61	AP335	4	5.0M	PCB	1.55*	1.35%	0	6	1.2	0	55	K0426	CB13	4 Ckt; Provides Sum and Carry Outputs
62	HA5401	4	5.0M	PCB	2.6%	.50*	0	5	860m	0	70		CB568	8 Half-Adders
63	NC1012	4	8.0M	MON	.82	.57	2.7	3.3	8.0m	-55	125	K0413a	CN29	Half Adder.
64	NC2012	4	8.0M	MON	.82	.57	2.7	3.3	8.0m	0	100	K0413a	CN29	Half Adder.
65	NC3012	4	8.0M	MON	.82	.57	2.7	3.3	8.0m	15	55	K046	CN29	Half Adder.
66	2NB1004	4	10M	MON	.81	.21	0.0	4.0	53m	-55	125	K047	CN19	Half Adder.
67	2NB2004	4	10M	MON	.84	.25	0.0	4.0	53m	0	100	K047	CN19	Half Adder.
68	2NB3004	4	10M	MON	.91	.25	0.0	3.6	53m	15	65	K047	CN19	Half Adder.
69	2NB4004	4	10M	MON	.84	.25	0.0	4.0	53m	0	75	K047	CN19	Half Adder.
70	2NC1012	4	10M	MON	.75	.22	0.0	4.0	8.0m	-55	125	K045	CN19	Half Adder.
71	2NC2012	4	10M	MON	.80	.24	0.0	4.0	8.0m	0	100	K045	CN19	Half Adder.
72	2NC3012	4	10M	MON	.85	.26	0.0	3.6	8.0m	15	65	K045	CN19	Half Adder.
73	2NC4012	4	10M	MON	.80	.24	0.0	4.0	8.0m	0	75	K045	CN19	Half Adder.
74	A11A	4	10M	MON	2.7	1.7	0	6	35m	-55	125	K049	CN16a	Fan-Out-5; tpd-36ns; tr-25ns.
75	A11F	4	10M	MON	2.7	1.7	0	6	35m	0	70	K049	TO84	Fan-Out-5; tpd-36ns; tr-25ns.
76	A51A	4	10M	MON	2.7	1.7	0	6	35m	0	70	K049	CN16a	Fan-Out-5; tpd-36ns; tr-25ns.
77	A51F	4	10M	MON	2.7	1.7	0	6	35m	0	70	K049	TO84	Fan-Out-5; tpd-36ns; tr-25ns.
78	NB1004	4	25M	MON	.82	.57	2.7	3.3	53m	-55	125	K0412	CN29	Half Adder.
79	NB2004	4	25M	MON	.82	.57	2.7	3.3	53m	0	100	K0412	CN29	Half Adder.
80	RDD980R	5							33m%				TO86	2ckt; Low level to high.
81	ML105RA	5		DCM	12*	-12%	12	12		0	52			Serial to Parallel Receiver.
82	ML105RB	5		DCM	12*	-12%	12	12		0	52			Serial to Parallel Receiver.
83	ML105TA	5		DCM	-6.0%	6.0	12	12		0	52			Fan In 5;Parallel to Serial Transmitter.
84	ML105TB	5		DCM	-6.0%	6.0	12	12		0	52			Fan In 5;Parallel to Serial Transmitter.
85	ML107RA	5		DCM	12*	-12%	12	12		0	52			Serial to Parallel Receiver.
86	ML107TA	5		DCM	6.0	-6.0%	12	12		0	52			Fan In 7;Parallel to Serial Transmitter.
87	ML108RC	5		DCM	12*	-12%	12	12		0	52			Serial to Parallel Receiver.
88	ML108TC	5		DCM	6.0	-6.0%	12	12		0	52			Fan In 8;Parallel to Serial Transmitter.
89	HDD980R	5		DTL	-20%	.10†*	0.0	5.0	33m%	-55	125	K0551	TO86	2 ckt;Low Level to High;toff 3.0ns max.
90	361BG	5		MON	5.0	.30†	0.0	12	120m	-55	125	K0518	CN69	2 Ckt: high level to low level.
91	361BJ	5		MON	5.0	.30†	0.0	12	120m	-55	125	K0518	M172	2 Ckt; high level to low level.
92	361CG	5		MON	5.0	.30†	0.0	12	120m	-30	85	K0518	CN69	2 Ckt; high level to low level.
93	362BG	5		MON	5.0	.30†	0.0	12	150m	-55	125	K0519	CN69	2 Ckt; low level to high level.
94	362BJ	5		MON	5.0	.30†	0.0	12	150m	-55	125	K0519	M172	2 Ckt; low level to high level.
95	362CG	5		MON	5.0	.30†	0.0	12	150m	-30	85	K0519	CN69	2 Ckt; low level to high level.
96	DM8820D	5		MON	2.5†%	.4*†	0	5	600m	0	70	K0533	M75f	Line Receiver.
97	PL9606	5		MON	3.9	.59	0	12	250m	-55	125	K0513	TO91	RTL to DTL; Relay or Lamp Driver.
98	PL9607	5		MON	4.0	.59	0	12	250m	-55	125	K0513a	TO91	RTL to DTL; Relay or Lamp Driver.
99	PL9610	5		MON	.80%	0.0*	7	7	250m	-55	125	K0514	TO78	DTL to RTL; Pulse Level Restoration.
100	PL9611	5		MON	.80%	.30	0	8	25m	-55	125	K0515	TO78	Read-in Ckt with RTL; 3 Ckts.
101	SD361BG	5		MON	6.5%	5.0*	0.0	12		-55	125	K0518	CN50	Dual input interface.
102	SD361BJ	5		MON	6.5%	5.0*	0.0	12		-55	125	K0518	M172	Dual input interface.
103	SD361CG	5		MON	6.5%	5.0*	0.0	12		-30	100	K0518	CN50	Dual input interface.
104	SD361CJ	5		MON	6.5%	5.0*	0.0	12		-30	100	K0518	M172	Dual input interface.
105	SD362BG	5		MON	1.7%	.90*	0.0	12		-55	125	K0519	CN50	Dual output interface.
106	SD362BJ	5		MON	1.7%	.90*	0.0	12		-55	125	K0519	M172	Dual output interface.
107	SD362CG	5		MON	2.0%	.80*	0.0	12		-30	100	K0519	CN50	Dual output interface.
108	SD362CJ	5		MON	2.0%	.90*	0.0	12		-30	100	k0519	M172	Dual output interface.
109	U6A962451	5		MON	1.9%	1.1*	30	10		-55	125	K0530	TO116	Converts to -3V, -9V Logic Levels.
110	U6A962459	5		MON	1.9%	1.1*	30	10		0	75	K0530	TO116	Converts to -3V, -9V Logic Levels.

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) MAX. OPERATING FREQ.
(3) PROCESS (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL '1' (V)	LOGIC LEVEL '0' (V)	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	MAX. TOTAL PKG. DISS. (W)	TEMP. LOW °C	TEMP. HI °C	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO	GENERAL DESCRIPTION
1	U6A962551	5		MON	-3.0%	-9.0*	20	8.0		-55	125	K0531	TO116	Converts to .50V, 2.6V Logic Levels.
2	U6A962559	5		MON	-3.0%	-9.0*	20	8.0		0	75	K0531	TO116	Converts to .50V, 2.6V Logic Levels.
3	WM150Q	5		MON	2.5%	1.5*	13	13	100m	-55	125		TO86	Interface convert level shifter.
4	WS150Q	5		MON	2.5%	1.5*	13	13	100m	-55	125	K0510	FP37	-1-In;-6.3 out -0-In;7.3 out.
5	W690	5		PCB	-3.0	0.0	15	10		-20	65		CB31	IBM -N- Line Converter.
6	SN346A	5	250k	MON	6.0	0.0	12	12	200m	-65	150	K055	ZB6	2 Ckt;Output 1.0 to -12V;0.0 to 6.0V.
7	NX10	5	300k	PCB	8.0	0.0	25	25	6.0	-55	100	K056	CB34	8 ckts;Output Convert 1 is 25;0 is -.30.
8	NX11	5	300k	PCB	-20	0.0	25	8.0	2.2	-55	100	K056	CB34	8 ckts;In 1V to -20V;Out -1V to 8V.
9	NC607	5	500k	MOH		-.60†	25	15	100m	-55	90		TO74	MOS to DTL Logic;tr 300nsec;tf 200nsec.
10	NC608	5	500k	MOH			25	15	105m	-55	125		TO74	DTL to MOS Logic;tr 350nsec;tf 200nsec.
11	PC607	5	500k	MOH		-.60†	25	15	100m	-55	90		TO87	MOS to DTL Logic;tr 300nsec;tf 200nsec.
12	PC608	5	500k	MOH			25	15	105m	-55	125		TO87	DTL to MOS Logic;tr 350nsec;tf 200nsec.
13	SN343A	5	1.0M	MON	-30	20	3	24	50m	-65	150	K054	ZB6	2 Ckt; Output 1 - .35V; 0 - 6.0V.
14	PH5001	5	1.0M	MOS	-7.0	4.0†	0	25	500m	-55	125	K0536	CN⧄	Bipolar;tr-200nsec;tf-20nsec;tpd-60nsec.
15	PH5002	5	1.0M	MOS	5.0	1.0†	0	25	500m	-55	125	K0537	CN⧄	Bipolar;tr-40nsec;tf-100nsec;tpd-30nsec.
16	PH5003	5	1.0M	MOS			0	25	500m	-55	125		CN⧄	Contains PH5001 and PH5002 in one Pkg.
17	MS30	5	1.0M	PCB	-6.0	0.0	18	12	1.7	-20	55	K0516	CB13a	Gate Shaper.
18	NT17	5	2.0M	PCB	4.0	0.0	0.0	8.0	2.7	5.0	71	K0522	CB37a	Converts to 0.0 and -12V max.
19	561A	5	4.0M%	MON	4.0%	.25*	0.0	12	1.0m	-55	125	K0511	FP26a	Input Interface Circuit;TpD 45ns.
20	562A	5	4.0M%	MON	4.0%	.25*	0.0	6.0	1.0m	-55	125	K0512	FP26a	Input Interface Circuit;TpD 70ns.
21	567BE	5	4.0M	MON			0	4	1.0m	-55	125			Input Interface; Prop. Delay 45nsec.
22	567BH	5	4.0M	MON			0	4	1.0m	-55	125			Input Interface; Prop. Delay 45nsec.
23	568BE	5	4.0M	MON			0	4	1.0m	-55	125			Output Interface; Prop. Delay 70 nsec.
24	568BH	5	4.0M	MON			0	4	1.0m	-55	125			Output Interface; Prop. Delay 70 nsec.
25	Y16701	5	4.0M	MON			0.0	4.0	1.0m	-55	125			Input Interface;TpD 45ns.
26	Z16701	5	4.0M	MON			0.0	4.0	1.0m	-55	125			Input Interface;TpD 70ns.
27	ID2L,M,H	5	5.0M	MOH	0.0	5.0	0	5	1.0	0	100		CB7	2 Ckt;5V into 75 ohms;Ckt delay 100ns.
28	IN5AH	5	5.0M	MOH	0.0	5.0	0.0	5.0		0	100	K053	CB7	5 ckt;Out 0,-30.
29	IN5AL	5	5.0M	MOH	0.0	5.0	0.0	5.0		-15	55	K053	CB7	5 ckt;Out 0,-30.
30	IN5AM	5	5.0M	MOH	0.0	5.0	0.0	5.0		0	70	K053	CB7	5 ckt;Out 0,-30.
31	IN5BH	5	5.0M	MOH	-200	0.0	0.0	5.0	250m	0	100	K053	CB7	5 ckt;Out 5,0.
32	IN5BL	5	5.0M	MOH	-200	0.0	0.0	5.0	250m	-15	55	K053	CB7	5 ckt;Out 5,0
33	IN5BM	5	5.0M	MOH	-200	0.0	0.0	5.0	250m	0	70	K053	CB7	5 ckt;Out 5,0.
34	IP5AH	5	5.0M	MOH	0.0	5.0	0.0	5.0		0	100		CB7	5Ckt; Output 30V and 0V.
35	IP5AL	5	5.0M	MOH	0.0	5.0	0.0	5.0		15	55		CB7	5Ckt; Output 30V and 0V.
36	IP5AM	5	5.0M	MOH	0.0	5.0	0.0	5.0		0	70		CB7	5Ckt; Output 30V and 0V.
37	IP5BH	5	5.0M	MOH	0.0	5.0	0.0	5.0	250m	0	100		CB7	5Ckt; Output 0V and 5.0V.
38	IP5BL	5	5.0M	MOH	0.0	5.0	0.0	5.0	250m	15	55		CB7	5Ckt; Output 0V and 5.0V.
39	IP5BM	5	5.0M	MOH	0.0	5.0	0.0	5.0	250m	0	70		CB7	5Ckt; Output 0V and 5.0V.
40	LC5301	5	5.0M	PCB	28*	.70*	0	5	420m	0	70		CB56	12 Level Conv., Positive Input to Ic.
41	LC5302	5	5.0M	PCB	-16*	-.5*	0	5	90m	0	70		CB56	12 Level Conv., Negative Input to Ic.
42	LC5303	5	5.0M	PCB	2.6%	.50*	6	5		0	70		CB56	8 Level Conv., Output, Ic to Negative.
43	NX50	5	8.0M	PCB	8.0	0.0	25	25	4.1	-55	100	K058	CB34	17 ckts;CA terms;8 convert 4V interface.
44	NX51	5	8.0M	PCB	8.0	0.0	25	25	2.7	-55	100	K057	CB34	16 ckt;3 to 6 conv. 8 interface.
45	DM7820	5	10M	MON	2.4%	.40*	0	5	50mΔ	-55	125			Dual Line Receiver.
46	DM7830	5	10M	MON	2.4%	.40*	0	5	100mΔ	-55	125			Dual Line Driver, 50 to 500 ohms.
47	DM8820	5	10M	MON	2.4%	.40*	0	5	50mΔ	0	70			Dual Line Receiver.
48	DM8830	5	10M	MON	2.4%	.40*	0	5	100mΔ	0	70			Dual Line Driver, 50 to 500 ohms.
49	DM8830D	5	10M	MON	2.4%	.40*	0	5	100mΔ	0	70	K15161	M75f	Line Driver.
50	NT10	5	10M	PCB	4.0	0.0	8.0	8.0	2.1	5.0	71		CB37a	4x4 Interface Buffer.
51	NT11	5	10M	PCB	4.0	0.0	0.0	8.0	2.1	5.0	71		CB37a	4x4 Matrix.
52	NT18	5	20M	PCB	-12	0.0	0	8	1.3	5	71	K0523	CB37a	Converts to 0 and 4V max.
53	FuL92729	6					0.0	4.0	80m	15	55	K0643		4 ckts;Fan Out 16;Prop.Delay 12ns.
54	HEPC1036P-RT	6					0.0	8.0	78m				TO116	Hex w/pullup resistors;tpd 30ns.
55	MIC350-1A	6					0.0	4.0	36m	-55	125			Prop.Delay 15ns;Fan Out 10;Noise Rej 200mV
56	MIC350-1B	6					0.0	4.0	36m	-55	125			Prop.Delay 15ns;Fan Out 10;Noise Rej 200mV
57	MIC350-1C	6					0.0	4.0	36m	-55	125			Prop.Delay 15ns;Fan Out 10;Noise Rej 200mV
58	MIC350-2A	6					0.0	4.0	36m	0	100			Prop.Delay 15ns;Fan Out 10;Noise Rej 200mV
59	MIC350-2B	6					0.0	4.0	36m	0	100			Prop.Delay 15ns;Fan Out 10;Noise Rej 200mV
60	MIC350-2C	6					0.0	4.0	36m	0	100			Prop.Delay 15ns;Fan Out 10;Noise Rej 200mV
61	MIC350-3A	6					0.0	4.0	36m	15	55			Prop.D 15ns;Fan Out 10;Noise Rej. 200mV.
62	MIC350-3B	6					0.0	4.0	36m	15	55			Prop.D 15ns;Fan Out 10;Noise Rej. 200mV.
63	MIC350-3C	6					0.0	4.0	36m	15	55			Prop.D 15ns;Fan Out 10;Noise Rej. 200mV.
64	SD3723	6					0.0	3.6	130m	0	75	K0649	CN⧄	Buffer;Vout 350mV max;RTL;tpd .30ns.
65	RD220	6		DTL	4.5	.25†	0	5.5	10m	-55	125	K0684	TO84	6 Ckt inverter;Fan Out-8;Pd-7ns
66	RD223	6		DTL	3.5	.55†	0	35	10m	-55	125	K0684	TO84	6 Ckt inverter;Pd-12ns
67	RD320	6		DTL	4.5	.25†	0	5.5	10m	-55	125	K0684	TO84	6 Ckt inverter;Pd-7ns
68	RD334	6		DTL	4.5	.25†	0	5.5	10m	-55	125	K0684a	TO84	6 Ckt inverter
69	RD520	6		DTL	4.5	.30†	0	5.5	10m	0	75	K0684	TO84	6 Ckt inverter;Pd-7ns
70	RD534	6		DTL	4.5	.25†	0	5.5	10m	0	75	K0684a	TO84	
71	RD535	6		DTL	30	.50	0.0	5.5	12m	0	75	K0684a	TO84	
72	RD536	6		DTL	55	.50	0.0	5.5	12m	0	75	K0684a	TO84	
73	RD1334	6		DTL	4.5	.25†	0	5.5	10m	-55	125	K0684a	M75b	
74	RD1534	6		DTL	4.5	.25†	0	5.5	10m	0	75	K0684a	M75b	
75	RD1535	6		DTL	30	.50	0.0	5.5	12m	0	75	K0684a	M75b	
76	RD1536	6		DTL	55	.50	0.0	5.5	12m	0	75	K0684a	M75b	
77	3NB1027	6		MON			0.0	4.0	80m	-55	125	K0643	CN29	Quad Inverter.
78	3NB2027	6		MON			0.0	4.0	80m	0	100	K0643	CN29	Quad Inverter.
79	3NB3027	6		MON			0.0	3.6	80m	15	65	K0643	CN29	Quad Inverter.
80	3NB4027	6		MON			0.0	4.0	80m	0	75	K0643	CN29	Quad Inverter.
81	102AE	6		MON	.81%	.55*	0	3	120m	55	125	K0678	TO78	Buffer; Output-50mA max.
82	102AH	6		MON	.81%	.55*	0	3	120m	55	125	K0678	TO91	Buffer; Output-50mA max.
83	102BE	6		MON	.82%	.57*	0	3	120m	55	125	K0678	TO78	Buffer; Output-50mA max.
84	102BH	6		MON	.82%	.57*	0	3	120m	55	125	K0678	TO91	Buffer; Output-50mA max.
85	102CE	6		MON	.85%	.55*	0	3	120m	0	70	K0678	TO78	Buffer; Output-50mA max.
86	132AH	6		MON	.80	.25	0	3		-55	125	K0612		4 Ckts/Mod;Prop. Delay-15ns.
87	132BE	6		MON	.80	.25	0	3	88m	-55	125	K0612		4 Ckts/Mod;Prop. Delay-15ns.
88	132BH	6		MON	.80	.25	0	3	88m	-55	125	K0612		4 Ckts/Mod;Prop. Delay-15ns.
89	132CE	6		MON	.80	.25	0	3	88m	-55	125	K0612		4 Ckts/Mod;Prop. Delay-15ns.
90	1263Q	6		MON			0.0	8.0		-55	125	K0645	CN41	4 ckts;Fan Out 8.0 max;TpD 20ns.
91	2263Q	6		MON			0.0	8.0		-55	125	K0645	FP19a	4 ckts;Fan Out 8.0 max;TpD 20ns.
92#	5404-1-6A	6		MON	2.0%	.80*	0.0	5.0	60m†	-55	125	G04387e	M157	Hex;TTL;FO 10;6 ckts.
93#	5405-1-6A	6		MON	2.0%	.80*	0.0	5.0	60m†	-55	125	G04387f	M157	Hex;TTL;FO 10;6 ckts.
94#	7404-9-6A	6		MON	2.0%	.80*	0.0	5.0	60m†	0	70	G04387e	M157	Hex;TTL;FO 10;6 ckts.
95#	7405-9-6A	6		MON	2.0%	.80*	0.0	5.0	60m†	0	70	G04387f	M157	Hex;TTL;FO 10;6 ckts.
96	CD2310/936	6		MON	2.6%	.4*†	0	8		-55	125	K0695	FP44a	Hex inverters; Diode input.
97	CD2310D936	6		MON	2.6%	.4*†	0	8		-55	125	K0695	M135	Hex inverters; Diode input.
98	CD2310E836	6		MON	2.6%	.45*†	0	8		0	75	K0695	TO116	Hex inverters; Diode input.
99	CD2311/937	6		MON	3.8%	.4*†	0	8		-55	125	K0695	FP44a	Hex inverters; Diode input.
100	CD2311D937	6		MON	3.8%	.4*†	0	8		-55	125	K0695	M135	Hex inverters; Diode input.
101	CD2311E837	6		MON	4.3%	.5*†	0	8		0	75	K0695	TO116	Hex inverters; Diode input.
102	CD2312	6		MON	2.6%	.4*†	0	8		-55	125	K0695a	FP44a	Hex inverters; Expandable input.
103	CD2312D	6		MON	2.6%	.4*†	0	8		-55	125	K0695a	M135	Hex inverters; Expandable input.
104	CD2312E	6		MON	2.6%	.45*†	0	8		0	75	K0695a	TO116	Hex inverters; Expandable input.
105	CD2313	6		MON	3.8%	.4*†	0	8		-55	125	K0695a	FP44a	Hex inverters; Expandable input.
106	CD2313D	6		MON	3.8%	.4*†	0	8		-55	125	K0695a	M135	Hex inverters; Expandable input.
107	CD2313E	6		MON	4.3%	.5*†	0	8		0	75	K0695a	TO116	Hex inverters; Expandable input.
108	DTuL936	6		MON	1.9	1.0	0.0	5.0	8.5m	0	75		M54	6 ckts;Hex Inverter.
109	DTuL937	6		MON	1.9	1.0	0.0	5.0	8.5m	0	75		M54	6 ckts;Hex Inverter.
110#	FCH202	6		MON	2.3%	.80*	0	6	42m	0	75	K0682	TO84	NAND/NOR Sextuple inverter gate.

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) MAX. OPERATING FREQ. (3) PROCESS (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL '1' (V)	LOGIC LEVEL '0' (V)	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	MAX. TOTAL PKG. DISS. (W)	TEMP. LOW °C	TEMP. HI °C	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO	GENERAL DESCRIPTION
1#	FCH212	6		MON	2.3%	.80*	0	6	66m	0	75	K0682a	TO84	NAND/NOR Sextuple inverter gate.
2	FuL90029	6		MON	1.3	.25	0.0	3.6	15m	15	55	K0649	TO99	Buffer.
3	I11004	6		MON	.80	.25	0.0	3.0	88m	0	70	K0612	CN11	4 ckts/Mod;TpD 15ns.
4	I41001	6		MON	.80	.25	0.0	3.0	88m	-55	125	K0612	CN11	4 Ckts; Prop Delay 15ns.
5	I41008	6		MON	.80	.25	0.0	3.0	88m	-55	125	K0612	FP26	4 ckts/Mod;TpD 15ns.
6	MC2008F	6		MON	2.4%	.45*†	0.0	5.0	132m	0	75	K06107c	TO85	Hex Inverters;tr 4.0ns max;tf 2.5ns.
7	MC2008L	6		MON	2.4%	.45*†	0.0	5.0	132m	0	75	K06107c	TO116	Hex Inverters;tr 4.0ns max;tf 2.5ns.
8	MC2008P	6		MON	2.4%	.45*†	0.0	5.0	132m	0	75	K06107c	M114	Hex Inverters;tr 4.0ns max;tf 2.5ns.
9	MC2058F	6		MON	2.4%	.45*†	0.0	5.0	132m	0	75	K06107c	TO85	Hex Inverter;tr 4.0ns max;tf 2.5ns max.
10	MC2058L	6		MON	2.4%	.45*†	0.0	5.0	132m	0	75	K06107c	TO116	Hex Inverter;tr 4.0ns max;tf 2.5ns max.
11	MC2058P	6		MON	2.4%	.45*†	0.0	5.0	132m	0	75	K06107c	M114	Hex Inverter;tr 4.0ns max;tf 2.4ns max.
12	MC2116P	6		MON	3.1%	.40†*	0.0	5.0	132m†	-55	125	K06118	M222	6 ckts; tpd 6.0n typ.
13	MC2166P	6		MON	3.1%	.40†*	0.0	5.0	132m†	-55	125	K06118	M222	6 Ckts; tpd 6.0n typ.
14	MC7405F	6		MON		.40*†	0.0	5.0	60m†	0	70	G04387f	TO86	6 Ckts;tpd 35ns;FO 10.
15	NE181K	6		MON	3.9%	.45†*	0	8	250m	0	70	K0637	CN17	DTL; Fanout-5; 4 Ckts.
16	PD7404	6		MON	2.0%	.80*	0.0	7.0	10mΔ	0	75	K06107a	TO116	Hex Inverter;Fanout 10;tpd22ns max.
17	PD7405	6		MON	2.0%	.80*	0.0	7.0	10mΔ	0	75	K06107a	TO116	Hex Inverter;Fanout 6;tpd55ns max.
18	PD9608-51	6		MON	2.6	.40	0	5	22m	-55	125	K0682a	TO116	6 Ckt.;Fan Out-8;tpd-80ns.
19	PD9608-59	6		MON	2.6	.40	0	5	22m	0	75	K0682a	TO116	6 Ckt.;Fan Out-8;tpd-80ns.
20	PE9608-59	6		MON	2.6	.40	0.0	5.0	22m	0	75	K0682a	M131	6 ckt;Fan Out 8;tpD 80ns.
21	PE9936-59	6		MON	2.6	.40	0.0	5.0	22m	0	75	K0681a	M131	6 ckt;Fan Out 8;tpD 80ns.
22	PE9937-59	6		MON	2.6	.40	0.0	5.0	22m	0	75	K0681a	M131	6 ckt;Fan Out 8;tpD 80ns.
23	PL9608	6		MON	2.0	1.1	0.0	5.0		-55	125	L0677	FP1	6 ckts.
24	PL9608-51	6		MON	2.6	.40	0	5	22m	-55	125	K0682a	TO86	6 Ckt.;Fan Out-8;tpd-80ns.
25	PL9608-59	6		MON	2.6	.40	0	5	22m	0	75	K0682a	TO86	6 Ckt.;Fan Out-8;tpd-80ns.
26	PM9608-59	6		MON	2.6	.40	0	5	22m	0	75	K0682a	M131	6 Ckt;Fan Out-8;tpd-80ns.
27	RC934D	6		MON	2.0%	1.0*	0	5.0		0	75			Hex Inverter;Fanout 8;Pd-16mW;Nm-.50V.
28	RC934J	6		MON	2.0%	1.0*	0	5.0		0	75			Hex Inverter;Fanout 8;Pd-16mW;Nm-.50V.
29	RC934P	6		MON	2.0%	1.0*	0	5.0		0	75			Hex Inverter;Fanout 8;Pd-16mW;Nm-.50V.
30	RC936D	6		MON	2.0%	1.0*	0	5.0		0	75			Hex Inverter;Fanout 8;Pd-8.5mW;Nm-.50V.
31	RC936J	6		MON	2.0%	1.0*	0	5.0		0	75			Hex Inverter;Fanout 8;Pd-8.5mW;Nm-.50V.
32	RC936P	6		MON	2.0%	1.0*	0	5.0		0	75			Hex Inverter;Fanout 8;Pd-8.5mW;Nm-.50V.
33	RC937D	6		MON	2.0%	1.0*	0	5.0		0	75			Hex Inverter;Fanout 7;Pd-12.5mW;Nm-.50V.
34	RC937J	6		MON	2.0%	1.0*	0	5.0		0	75			Hex Inverter;Fanout 7;Pd-12.5mW;Nm-.50V.
35	RC937P	6		MON	2.0%	1.0*	0	5.0		0	75			Hex Inverter;Fanout 7;Pd-12.5mW;Nm-.50V.
36	RD234	6		MON	4.5	.25†	0	5.5	10m	-55	125	K0684a	TO84	6 Ckts;Fan Out-8;Pd-7ns
37	RD235	6		MON	30	.50	0	5.5	12.m	-55	125	K0684a	TO84	6 Ckts;Fan Out-8;Pd-7ns
38	RD1234	6		MON	4.5	.25†	0	5.5	10m	-55	125	K0684a	M75b	6 Ckts;Fan Out-8;Pd-7ns
39	RD1235	6		MON	30	.50	0	5.5	12.m	-55	125	K0684a	M75b	6 Ckts;Fan Out-8;Pd-7ns
40	RG380P	6		MON	3.5	.20	0	5.0	22m	-55	125		M105k	Hex Inverter;Fanout-11;Noise Margin-1.0V.
41	RG381P	6		MON	3.5	.20	0	5.0	22m	-55	125		M105k	Hex Inverter;Fanout-6;Noise Margin-1.0V.
42	RG382P	6		MON	3.5	.20	0	5.0	22m	0	75		M105k	Hex Inverter;Fanout-9;Noise Margin-1.0V.
43	RG383P	6		MON	3.5	.20	0	5.0	22m	0	75		M105k	Hex Inverter;Fanout-5;Noise Margin-1.0V.
44	RG3380P	6		MON			0	5	22m	-55	125		M105k	Hex Inverter;Fanout-11;tpd-4.5n.
45	RG3382P	6		MON			0	5	22m	0	75		M105k	Hex Inverter;Fanout-9;tpd-4.5n.
46	RM934D	6		MON	2.0%	1.0*	0	5.0		-55	125			Hex Inverter;Fanout 8;Pd-16mW;Nm-.50V.
47	RM934P	6		MON	2.0%	1.0*	0.0	5.0		-55	125			Hex Inverter;Fan Out 8;Pd-16mW;Nm-.50V.
48	RM935D	6		MON	2.0%	1.0*	0	5.0		-55	125			Hex Inverter;Fanout 8;Pd-7mW;Nm-.50V.
49	RM935P	6		MON	2.0%	1.0*	0	5.0		-55	125			Hex Inverter;Fanout 8;Pd-7mW;Nm-.50V.
50	RM936D	6		MON	2.0%	1.0*	0	5.0		-55	125			Hex Inverter;Fanout 8;Pd-8.5mW;Nm-.50V.
51	RM936P	6		MON	2.0%	1.0*	0	5.0		-55	125			Hex Inverter;Fanout 8;Pd-8.5mW;Nm-.50V.
52	RM937D	6		MON	2.0%	1.0*	0	5.0		-55	125			Hex Inverter;Fanout 7;Pd-12.5mW;Nm-.50V.
53	RM937P	6		MON	2.0%	1.0*	0	5.0		-55	125			Hex Inverter;Fanout 7;Pd-12.5mW;Nm-.50V.
54	RM940D	6		MON	2.0%	1.0*	0	5.0	8.5m	-55	125			Hex Inverter;Fanout 8;Noise Margin-.50V.
55	RM940P	6		MON	2.0%	1.0*	0	5.0	8.5m	-55	125			Hex Inverter;Fanout 8;Noise Margin-.50V.
56	RM941P	6		MON	2.0%	1.0*	0	5.0	6.0m	-55	125			Hex Inverter;Fanout 8;Noise Margin-.50V.
57	SE181K	6		MON	3.9%	.45*†	0.0	8.2	250m	-55	125	K0690	CN17	DTL;Fan Out 5; 4 Ckts.
58	SE490J	6		MON	3.1%	.3*†	0	6.0	60m	-55	125	K06103	TO88	6 Ckts;Fan Out 8 max;tf 75ns.
59	SN344A	6		MON	6.0	.10	3	6	255m	-65	150	K0611	ZB6	3 Ckt;FanOut 12/Ckt;Delay 120nsec.
60	SN15846L	6		MON	1.9%	1.1	0.0	0.0	5.0m	0	75		TO100	4 ckt;Quadruple Inverter.
61#	SP319B	6		MON	1.0	.22	0	8	40m	0	70	K0689	TO78	RTL; Fan-Out-15; tpd-16ns.
62#	SP369B	6		MON	1.0	.22	0	8	40m	0	70	K0689	FP2	RTL; Fan-Out-15; tpd-16ns.
63	SW936-1D	6		MON	1.8%	1.2*	0.0	8.0	48m	-55	125	K0677a	TO85	DTL;Fan Out 8.
64	SW936-2D	6		MON	1.8%	1.2*	0.0	8.0	48m	0	75	K0677a	TO85	DTL;Fan Out 8.
65	SW937-1D	6		MON	1.8%	1.2*	0.0	8.0	48m	-55	125	K0677a	TO85	DTL;Fan Out 7.
66	SW937-2D	6		MON	1.8%	1.2*	0.0	8.0	48m	0	75	K0677a	TO85	DTL;Fan Out 7.
67#	T116B1-16	6		MON	1.8%	.85*	0.0	5.0	66m†	0	75	G03250d	M200	6 ckts; TTL hex inverter.
68#	T116D1-16	6		MON	1.8%	.85*	0.0	5.0	66m†	0	75	G03250d	M200	6 ckts; TTL hex inverter.
69#	T116D2-16	6		MON	1.7%	.90*	0.0	5.0	66m†	-55	125	G03250d	M200	6 Ckts; TTL Hexinverter.
70	uL900#1	6		MON	1.3	.25	0.0	3.6		-15	55		TO70	Buffer Inverter;Fan Out 25.
71	uL900#2	6		MON	1.3	.25	0.0	3.6		-15	55		CN34	Buffer Inverter;Fan Out 25.
72	uL927#1	6		MON	1.1	.25	0.0	3.6	48m	-55	125	K0643	TO70	Quad Inverter.
73	uL927#2	6		MON	1.1	.25	0.0	3.6	48m	0	100	K0643	CN34	Quad Inverter.
74	U5B990028	6		MON			0.0	3.6		15	55	K0689b	TO99	Fan Out 80.
75	U5B992728	6		MON			0.0	3.6		15	55	K0643	TO99	4 ckts; Fan Out 16 each.
76	U5B992729	6		MON			0.0	3.6		0	70	K0643	TO99	4 ckts; Fan Out 16 each.
77	U5F990028	6		MON			0.0	3.6		15	55	K0689b	TO100	Fan Out 80.
78	U5F990029	6		MON			0.0	3.6		0	70	K0689b	TO100	Fan Out 80.
79	U8A990028	6		MON			0.0	3.6		15	55	K0689b	CN34	Fan Out 80.
80	U8A990029	6		MON			0.0	3.6		0	70	K0689b	CN34	Fan Out 80.
81	U8A992728	6		MON			0.0	3.6		15	55	K0643	CN34	4 ckts;Fan Out 16 each.
82	U8A992729	6		MON			0.0	3.6		0	70	K0643	CN34	4 ckts;Fan Out 16 each.
83	WC934D	6		MON	2.6%	.45*	0	8	66m†	0	75	K0681	M126b	Hex Inverter
84	WC936D	6		MON	2.6%	.45*	0	8	66m†	0	75	K0682a	M126b	Hex Inverter
85	WC937D	6		MON	2.6%	.45*	0	8	90m†	0	75	K0682a	M126b	Hex Inverter
86	9016-1-3L	6		MOS	1.7%	.90*	0.0	5.0	66m†	-55	125	G04345d	FP47a	6 ckts;TTL Hex Inverter.
87	9016-1-6B	6		MOS	1.7%	.90*	0.0	5.0	66m†	-55	125	G04345d	M153a	6 ckts;TTL Hex Inverter.
88	9016-9-3L	6		MOS	1.8%	.85*	0.0	5.0	66m†	0	75	G04345d	FP47a	6 ckts;TTL Hex Inverter.
89	9016-9-6B	6		MOS	1.8%	.85*	0.0	5.0	66m†	0	75	G04345d	M153a	6 ckts;TTL Hex Inverter.
90	PD9112-59	6		MOS	2.0%	.80*	0.0	20		0	75	K0637a	TO116	Hex Inverter; tpD 400ns max.
91	PL9112-59	6		MOS	2.0%	.80*	0.0	20		0	75	K0637a	FP28f	Hex Inverter; tpD 400ns max.
92	1001-003	6		PCB	8.5	0.0	15	15		-55	85	K0623		15 ckts;tr 3.0us;tf 1.0us.
93	462005	6		PCB	2.4%	0.0*	0.0	4.0		0	70		TO89	4 ckts;Fan Out 80.
94	CL801	6		PCM			0.0	5.0	240m	0	75		CB⧄	12 ckts; tpD 30ns; FO8; FI1.
95	CL802	6		PCM			0.0	5.0	360m	0	75		CB⧄	12 ckts; tpD 20ns; FO7; FI1.
96	DBIA1112	6		PCM	6.0%	1.0†*	6	12				K0638	M52	Two Independent Non-inverting Amplifier.
97	DCIA1112	6		PCM	6.0%	1*†	6	12				K0638	CB29	Two independent non-inverting amp.
98	S54H04F	6		TTL	2.0%	.80*	0.0	5.0	330m%	-55	125	K06109	M105r	Hex inv;Prop delay 10ns max.
99	S54H05F	6		TTL	2.0%	.80*	0.0	5.0	330m%	-55	125	G04387e	M105r	Hex inv;Prop delay 15ns max.
100	B663	6	1.0k	PCB	-6.0	0.0	12	6.0	200m	-15	60	K0628	CB22	2 Ckts/BD.
101	11A	6	10k%	3DM	0.0	12.5	6.0	24	70m	-10	70	K0651	ZB38	4 Ckt;tpd 7.7us;tr 7.0us;tf 8.0us.
102	11B	6	10k%	3DM	0.0	12.5	6.0	24	120m	-10	70	K0651a	ZB38	4 Ckt;tpd 7.7us;tr 7.0us;tf 8.0us.
103	11C	6	10k%	3DM	0.0	12.5	6.0	24	200m	-10	70	K0651b	ZB38	2 Ckt;tpd 7.7us;tr 6.5us;tf 8.0us.
104	DC01CIG1	6	20k	PCB	-6.0	0.0	12	12		-55	55	K066a		Contains 4 DC01IG1 Modules.
105	DC01CIV1	6	20k	PCB	-6.0	0.0	12	12		-55	55			Contains 4 Modules.
106	DC01CSIG1	6	20k	PCB	6.0	0.0	18	18		-55	100	K066a		Contains 4 DC01SIG1 Modules.
107	DC01CSIV1	6	20k	PCB	6.0	0.0	18	18		-55	100			Contains 4 Modules.
108	DC01CSXIG1	6	20k	PCB	6.0	0.0	18	18		-55	100	K066a		Contains 4 DC01SIG1 Modules.
109	DC01CSXIV1	6	20k	PCB	6.0	0.0	18	18		-55	100			Contains 4 Modules.
110	DC01CXIG1	6	20k	PCB	-6.0	0.0	12	12		-55	55	K066a		Contains 4 DC01IG1 Modules.

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) MAX. OPERATING FREQ. (3) PROCESS (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL		POWER SUPPLY SPAN		MAX. TOTAL PKG. DISS. (W)	TEMP.		DRAWINGS		GENERAL DESCRIPTION
					'1' (V)	'0' (V)	NEG. (V)	POS. (V)		LOW °C	HI °C	LOGIC DWG. No	OUTLINE DWG. No Δ=MO	
1	DC01CXIV1	6	20k	PCB	-6.0	0.0	12	12		-55	55			Contains 4 Modules.
2	DC01MIG1	6	20k	PCB	-6.0	0.0	12	12		-55	55			2 Ckt;w/both Base and Emitter Available.
3	DC01MIV1	6	20k	PCM	-6.0	0.0	12	12		-55	55			2 Ckts.
4	DC01MSIV1	6	20k	PCM	6.0	0.0	12	12		-55	100			2 Ckts.
5	Q412	6	25k	3DM	0.0	-6.0	12	12	45m	-20	65	K0658	M59	1 Ckt.
6	Q415	6	25k	3DM	0.0	-12	12	12	45m	-20	65	K0658a	M59	1 Ckt.
7	MA31-62	6	50k	PCB	-6.0	0.0	12	12		0	50		CB26	Independent Amplifier-Inverter Ckts.
8	DC1CIG1	6	100k	PCB	-6.0	0.0	18	18		-55	55	K066		Contains 4 DC1IG1 Modules.
9	DC1CIV1	6	100k	PCB	-6.0	0.0	18	18		-55	55			Contains 4 DC1IV1 Modules.
10	G331	6	100k	PCB	-6.0	0.0	12	6.0	2.1	-55	71		CB16	15 Circuits..
11	GA331	6	100k	PCB	-6.0	0.0	12	6.0	2.1	-55	71		CB16	15 ckts.
12	IV612	6	100k	PCB	-6.0	0.0	12	12	600m	-45	65	K061	CB1	12 Circuits.
13	DC1MIG1	6	100k	PCM	-6.0	0.0	18	18		-55	55			2 Ckt;w/both Base and Emitter Available.
14	DC1MIV1	6	100k	PCM	-6.0	0.0	18	18		-55	55			2 Ckts.
15	B894002	6	100k	3DM	-6.0	0.0	6.0	6.0		-20	60	K064	M4	2 Ckts.
16	B894005	6	100k	3DM	0.0	6.0	6.0	6.0		-20	60	K065	M4	2 Ckts.
17	IN11-1	6	100k	3DM	-12	0.0	12	12	230m	-35	65	K0617b	M15	1 ckt;Logic Inverter.
18	IN11-3	6	100k	3DM	-12	0.0	12	12	50m	-35	65	K0661	M15	Hi Zin;Logic Inverter.
19	IN12-1	6	100k	3DM	-12	0.0	12	12	460m	-35	65	K0617	M15	2 ckts;Logic Inverter.
20	IN12-2	6	100k	3DM	-12	0.0	12	12	20m	-35	65	K0617d	M15	2 ckts;Logic Inverter.
21	Q422	6	100k	3DM	0.0	-6.0	12	12	165m	-20	65	K0658	M59	1 Ckt.
22	11G333	6	200k	PCB	8.2	0.0	0.0	28			85	K0670	CB49	6 Ckt;Fan In 2;Inverter/Logic Driver.
23	GDI1-.2	6	200k	PCB	-10	0.0	12	6.0	1.2	0	55	K0662	CB15	10 ckts;Noise Rejection-1.5V.
24	GDI2-.2	6	200k	PCB	-10	0.0	12	6.0	2.2	0	55	K0662a	CB15	10 ckts;Noise Rejection-1.5V.
25	CT136-4	6	250k	PCB	-3.0	-11	12	12	528m	-55	71		CB16	8 ckts.
26	EM2511	6	250k	3DM	0.0	-6.0	12	6.0	720m	-55	71	K0613	M62	2 Ckts;tr 300nsec;tf 1.0usec.
27	T117	6	250k	3DM	-3.0	-11	12	0.0	55m	-45	65	K0652	M17	2 Circuits.
28	T136	6	250k	3DM	-3.0	-11	12	12	132m	-55	71	K0653	M17	2 Circuits.
29	T137	6	250k	3DM	-3.0	-11	12	12	125m	-55	71	K0654	M17	1 Circuit.
30	T138	6	250k	3DM	-3.0	-11	12	12	250m	-55	71	K0655	M17	2 Circuits.
31	455	6	300k	PCB	-6.8	0.0	12	12	1.2	0	55		CB24	Differentiator Amplifier.
32	460	6	300k	PCB	-6.8	0.0	12	12	1.4	0	55		CB24	
33	460A	6	300k	PCB	-6.8	0.0	12	12	650m	0	55		CB24	
34	461	6	300k	PCB	-6.8	0.0	12	12	650m	0	55		CB24	Transfer bus reduces input requirements.
35	478	6	300k	PCB	-6.8	0.0	12	12	1.2	0	55		CB24	3 Drivers.
36	478A	6	300k	PCB	-6.8	0.0	12	12	2.1	0	55		CB24	3 Drivers.
37	480	6	300k	PCB	-6.8	0.0	12	12	1.0	0	55		CB24	Minus to Plus Translators.
38	482	6	300k	PCB	-6.8	0.0	12	12	1.0	0	55		CB24	Plus to Minus Translators.
39	4102	6	500k	PCB	-3.0	0.0	15	10	1.7	-20	55	K0646b	CB30	Inv;FI1;FO9;TpD 300ns;RCT 9ckts.
40	4667	6	500k	PCB	-3.0	0.0	15	10	1.2	-20	55	K0666	CB30	6 ckts;Out 0 to -15V determined by clamp.
41	IV712	6	500k	PCB	-6.0	0.0	12	12	1.1	-45	65	K061	CB1	12 Circuits.
42	D003-1	6	1.0M				0.0	12				K0665		
43	D003-2	6	1.0M				0.0	12				K0665a		
44	D003-3	6	1.0M				0.0	12				K0665b		
45	D003-4	6	1.0M				0.0	12				K0665c		
46	D003-5	6	1.0M				0.0	12				K0665d		
47	DBIA1112ZA	6	1.0M		6.0	1.0†	6	12		0	50	K0638	M52	Tr 75ns;tf 20ns;2 ckts/MD.
48	DBIA1112ZAN	6	1.0M		6.0	1.0†	6	12		0	50	K0638	MP52a	Tr 75ns;tf 20ns;2 ckts/MD.
49	DBIA1112ZB	6	1.0M		6.0	1.0†	6	12		-20	75	K0638	M52	Tr 75ns;tf 20ns;2 ckts/MD.
50	DBIA1112ZBN	6	1.0M		6.0	1.0†	6	12		-20	75	K0638	MP52a	Tr 75ns;tf 20ns;2 ckts/MD.
51	DBIA1112ZC	6	1.0M		6.0	1.0†	6	12		-40	100	K0638	M52	Tr 75ns;tf 20ns;2 ckts/MD.
52	DBIA1112ZCN	6	1.0M		6.0	1.0†	6	12		-40	100	K0638	MP52a	Tr 75ns;tf 20ns;2 ckts/MD.
53	DBIA1112ZD	6	1.0M		6.0	1.0†	6	12		-55	125	K0638	M52	Tr 75ns;tf 20ns;2 ckts/MD.
54	DBIA1112ZDN	6	1.0M		6.0	1.0†	6	12		-55	125	K0638	MP52a	Tr 75ns;tf 20ns;2 ckts/MD.
55	DCIA1112ZA	6	1.0M		6.0	1.0†	6	12		0	50	K0638	CB29	Tr 75ns;tf 20ns;2 ckts/MD.
56	DCIA1112ZB	6	1.0M		6.0	1.0†	6	12		-20	75	K0638	CB29	Tr 75ns;tf 20ns;2 ckts/MD.
57	DCIA1112ZC	6	1.0M		6.0	1.0†	6	12		-40	100	K0638	CB29	Tr 75ns;tf 20ns;2 ckts/MD.
58	DCIA1112ZD	6	1.0M		6.0	1.0†	6	12		-55	125	K0638	CB29	Tr 75ns;tf 20ns;2 ckts/MD.
59	MC425F	6	1.0MΔ%	MON	3.5	.20	0	7	90m†	0	75	K06107c	TO85	6 Hex Inverters;TTL;Fan Out 12;tpd 10ns.
60	MC425L	6	1.0MΔ%	MON	3.5	.20	0.0	5.0	90m†	0	75	K06107c	TO116	6 Hex Inverters;TTL;Fan Out 12;tpd 10ns.
61	MC425P	6	1.0MΔ%	MON	3.5	.20	0	7	90m†	0	75	K06107c	M114	6 Hex Inverters;TTL;Fan Out 12;tpd 10ns.
62	MC475F	6	1.0MΔ%	MON	3.5	.20	0	7	90m†	0	75	K06107c	TO85	6 Hex Inverters;TTL;Fan Out 6;tpd 10ns.
63	MC475L	6	1.0MΔ%	MON	3.5	.20	0.0	5.0	90m†	0	75	K06107c	TO116	6 Hex Inverters;TTL;Fan Out 6;tpd 10ns.
64	MC475P	6	1.0MΔ%	MON	3.5	.20	0	7	90m†	0	75	K06107c	M114	6 Hex Inverters;TTL;Fan Out 6;tpd 10ns.
65	MC525F	6	1.0MΔ%	MON	3.5	.20	0.0	8.0	90m†	-55	125	K06107c	TO85	6 Hex Inverters;TTL;Fan Out 15;tpd 10ns.
66	MC525L	6	1.0MΔ%	MON	3.5	.20	0	8	90m†	-55	125	K06107c	TO116	6 Hex Inverters;TTL;Fan Out 15;tpd 10ns.
67	MC575F	6	1.0MΔ%	MON	3.5	.20	0.0	8.0	90m†	-55	125	K06107c	TO85	6 Hex Inverters;TTL;Fan Out 7;tpd 10ns.
68	MC575L	6	1.0MΔ%	MON	3.5	.20	0	8	90m†	-55	125	K06107c	TO116	6 Hex Inverters;TTL;Fan Out 7;tpd 10ns.
69	8IAH	6	1.0M	PCB	-10	0.0	12	12	975m	0	50	K0621	CB19	8 Inverters.
70	8061	6	1.0M	PCB	-10*	0.0	20	20	5.3	0	55	K0631	CB2	Inverting Buffer.
71	CT304-4	6	1.0M	PCB	-3.0	-11	12	12	480m	-55	71		CB16	4 ckts.
72	G203	6	1.0M	PCB	-6.0	0.0	12	6	497m	-55	71		CB16	2 Logic Inverters.
73	G204A	6	1.0M	PCB	-6.0	0.0	12	6	675m	-55	71		CB16	4 Logic Inverters.
74	GA203	6	1.0M	PCB	-6.0	0.0	12	6.0	497m	-55	71		CB16	2 Logic Inverters.
75	GA204A	6	1.0M	PCB	-6.0	0.0	12	6.0	675m	-55	71		CB16	4 Logic Inverters.
76	GDI1-1	6	1.0M	PCB	-10	0.0	12	6.0	1.2	0	55	K0662	CB15	10 ckts;Noise Rejection-1.5V.
77	GDI2-1	6	1.0M	PCB	-10	0.0	12	6.0	2.2	0	55	K0662a	CB15	10 ckts;Noise Rejection-1.5V.
78	MC60	6	1.0M	PCB	-6.2	0.0	18	18	2.7	0	55		CB25	Inverting Amplifier;Fan In 4;Fan Out 8.
79	MC61☒	6	1.0M	PCB	-6.2	0.0	18	18	2.7	0	55		CB25	Inverting Amplifier;Fan In 4;Fan Out 16
80	MS60	6	1.0M	PCB	6.2	0.0	18	18	2.7	-30	100		CB25	Inverting Amplifiers
81	MS61	6	1.0M	PCB	6.2	0.0	18	18	2.7	-30	100		CB25	Inverting Amplifiers
82	MM10833	6	1.0M	3DM	6.0	0.0	6	18					MP38	2 Ckts/MD
83	PM8263	6	1.0M	3DM	-6.5	0.0	18	6				K0630	ZB37	
84	PM8273	6	1.0M	3DM	-6.5	0.0	18	6				K0630a	ZB37	2 Ckts/MD
85	PM10773	6	1.0M	3DM	-6.5	0.0	18	6					ZB37	2 Ckts/MD
86	Q432	6	1.0M	3DM	0.0	-6.0	12	12	200m	-20	65	K0659	M59	1 Ckt.
87	Q482	6	1.0M	3DM	0.0	-6.0	12	12	250m	-55	125	K0660	M59	1 Ckt.
88	LCE204	6	2.0M	MOH	-6.0	0.0†	12	6		-10	55		CN27	
89#	OMY123	6	2.0M	MON	3.0%	.75*	6.0	6.0	100m	0	75	K0683	TO74	Inverting Buffer Amplifier.
90	8IAM	6	2.0M	PCB	-10	0.0	12	12	525m	0	50	K0621	CB19	8 Inverters.
91	DC2CIG1	6	2.0M	PCB	-6.0	0.0	18	18		-55	55	K066		Contains 4 DC2IG1 Modules
92	DC2CIV1	6	2.0M	PCB	-6.0	0.0	18	18		-55	55			Contains 4 DC2IV1 Modules
93	DC2CSIG1	6	2.0M	PCB	6.0	0.0	18	18		-55	100	K066a		4 DC01IG1 Modules
94	DC2CSIV1	6	2.0M	PCB	6.0	0.0	18	18		-55	100			Contains 4 DC2SIV1 Modules
95	IV812	6	2.0M	PCB	-6.0	0.0	12	12	1.2	-45	65	K061	CB1	12 Circuits
96	DC2MIG1	6	2.0M	PCM	-6.0	0.0	18	18		-55	55			2 Ckt;w/both Base and Emitter Available
97	DC2MIV1	6	2.0M	PCM	-6.0	0.0	18	18		-55	55			2 Ckt.
98	DC2MSIV1	6	2.0M	PCM	6.0	0.0	18	18		-55	100			2 Ckt.
99	EM2611	6	2.0M	3DM	0.0	-6.0	12	6	365m	-55	71	K0613	M62	2 Ckts; tr 30ns; tf 70ns.
100	EM3011	6	2.0M	3DM	0.0	6.0	6	12	100m	-55	125	K0668	M62c	2 Ckts; tr 30msec; tf 60nsec.
101	EM3019	6	2.0M	3DM	0.0	6.0	6	12	300m	-55	125	K0667	M62c	2 Ckts; tr 30nsec; tf 60nsec.
102	IN21-1	6	2.0M	3DM	12	0.0	12	12	70m	-35	125	K0617a	M16	1 ckt;Logic Inverter.
103	IN22-1	6	2.0M	3DM	12	0.0	12	12	140m	-35	125	K0617a	M16	2 ckts;Logic Inverter.
104	IN22-2	6	2.0M	3DM	12	0.0	12	12	15m	-35	125	K0617e	M16	2 ckts;Logic Inverter;No Collector R.
105	DBIA1112YA	6	5.0M		6.0	1.0†	6	12		0	50	K0638	M52	Tr 75ns;tf 20ns;2 ckts/MD.
106	DBIA1112YAN	6	5.0M		6.0	1.0†	6	12		0	50	K0638	MP52a	Tr 75ns;tf 20ns;2 ckts/MD.
107	DBIA1112YB	6	5.0M		6.0	1.0†	6	12		-20	75	K0638	M52	Tr 75ns;tf 20ns;2 ckts/MD.
108	DBIA1112YBN	6	5.0M		6.0	1.0†	6	12		-20	75	K0638	MP52a	Tr 75ns;tf 20ns;2 ckts/MD.
109	DBIA1112YC	6	5.0M		6.0	1.0†	6	12		-40	100	K0638	M52	Tr 75ns;tf 20ns;2 ckts/MD.
110	DBIA1112YCN	6	5.0M		6.0	1.0†	6	12		-40	100	K0638	MP52a	Tr 75ns;tf 20ns;2 ckts/MD.

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) MAX. OPERATING FREQ. (3) PROCESS (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	2 MAX OPER-ATING FREQ. (Hz)	3 PRO-CESS	LOGIC LEVEL		POWER SUPPLY SPAN		MAX. TOTAL PKG. DISS. (W)	TEMP.		DRAWINGS		GENERAL DESCRIPTION
					'1' (V)	'0' (V)	NEG. (V)	POS. (V)		LOW °C	HI °C	LOGIC DWG. No	OUTLINE DWG. No Δ=MO	
1	DBIA1112YD	6	5.0M		6.0	1.0†	6	12		-55	125	K0638	M52	Tr 75ns;tf 20ns;2 ckts/MD.
2	DBIA1112YDN	6	5.0M		6.0	1.0†	6	12		-55	125	K0638	MP52a	Tr 75ns;tf 20ns;2 ckts/MD.
3	DCIA1112YA	6	5.0M		6.0	1.0†	6	12		0	50	K0638	CB29	Tr 75ns;tf 20ns;2 ckts/MD.
4	DCIA1112YB	6	5.0M		6.0	1.0†	6	12		-20	75	K0638	CB29	Tr 75ns;tf 20ns;2 ckts/MD.
5	DCIA1112YC	6	5.0M		6.0	1.0†	6	12		-40	100	K0638	CB29	Tr 75ns;tf 20ns;2 ckts/MD.
6	DCIA1112YD	6	5.0M		6.0	1.0†	6	12		-55	125	K0638	CB29	Tr 75ns;tf 20ns;2 ckts/MD.
7	1103	6	5.0M	PCB	-3.0	0.0	15	10	1.2	-20	55	K0646	CB30	Inv;FI 1;FO 4;TpD 20ns;RCT 6 ckts.
8	1105	6	5.0M	PCB	-3.0	0.0	15	10	788m	-20	55	K0646a	CB30	Inv;FI 1;FO 4;TpD 20ns;RCT 5 ckts.
9	1667	6	5.0M	PCB	-3.0	0.0	15	10	1.2	-20	55	K0666a	CB30	6 ckts;Out 0 to -15V determined by clamp.
10	1681	6	5.0M	PCB	-3.0	0.0	15	10	2.5	-20	55	K0640a	CB30	3 ckts;High I out-coax cable 100Ω output.
11	GDI1-5	6	5.0M	PCB	-10	0.0	12	6.0	1.1	0	55	K0662	CB15	10 ckts;Noise Rejection-1.5V.
12	GDI2-5	6	5.0M	PCB	-10	0.0	12	6.0	3.1	0	55	K0662a	CB15	10 ckts;Noise Rejection-1.5V.
13	IIC0228	6	5.0M	PCB	2.0%	1.1*	0	5	250m	0	75	K0671	CB51	16 Inverters
14	IIC2228	6	5.0M	PCB	2.0%	1.1*	0	5	250m	0	75	K0671	CB51	16 Inverters
15	TI200	6	5.0M	PCB	10	.40	6.0	12	3.1	-55	100	K0616	CB15	12 ckt;Amplifier Inverter.
16	DBIA1112XA	6	10M		6.0	1.0†	6	12		0	50	K0638	M52	Tr 75ns;tf 20ns;2 ckts/MD.
17	DBIA1112XAN	6	10M		6.0	1.0†	6	12		0	50	K0638	MP52a	Tr 75ns;tf 20ns;2 ckts/MD.
18	DBIA1112XB	6	10M		6.0	1.0†	6	12		-20	75	K0638	M52	Tr 75ns;tf 20ns;2 ckts/MD.
19	DBIA1112XBN	6	10M		6.0	1.0†	6	12		-20	75	K0638	MP52a	Tr 75ns;tf 20ns;2 ckts/MD.
20	DBIA1112XC	6	10M		6.0	1.0†	6	12		-40	100	K0638	M52	Tr 75ns;tf 20ns;2 ckts/MD.
21	DBIA1112XCN	6	10M		6.0	1.0†	6	12		-40	100	K0638	MP52a	Tr 75ns;tf 20ns;2 ckts/MD.
22	DBIA1112XD	6	10M		6.0	1.0†	6	12		-55	125	K0638	M52	Tr 75ns;tf 20ns;2 ckts/MD.
23	DBIA1112XDN	6	10M		6.0	1.0†	6	12		-55	125	K0638	MP52a	Tr 75ns;tf 20ns;2 ckts/MD.
24	DCIA1112XA	6	10M		6.0	1.0†	6	12		0	50	K0638	CB29	Tr 75ns;tf 20ns;2 ckts/MD.
25	DCIA1112XB	6	10M		6.0	1.0†	6	12		-20	75	K0638	CB29	Tr 75ns;tf 20ns;2 ckts/MD.
26	DCIA1112XC	6	10M		6.0	1.0†	6	12		-40	100	K0638	CB29	Tr 75ns;tf 20ns;2 ckts/MD.
27	DCIA1112XD	6	10M		6.0	1.0†	6	12		-55	125	K0638	CB29	Tr 75ns;tf 20ns;2 ckts/MD.
28	2NB1000	6	10M	MON	.81	.25	0.0	4.0	31m	-55	125	K0649	CN19	Buffer.
29	2NB2000	6	10M	MON	.84	.25	0.0	4.0	31m	0	100	K0649	CN19	Buffer.
30	2NB3000	6	10M	MON	.91	.25	0.0	3.6	31m	15	65	K0649	CN19	Buffer.
31	2NB4000	6	10M	MON	.84	.25	0.0	4.0	31m	0	75	K0649	CN19	Buffer.
32	2NC1009	6	10M	MON	.75	.22	0.0	4.0	10m	-55	125	K0650	CN19	Buffers.
33	2NC2009	6	10M	MON	.80	.24	0.0	4.0	10m	0	100	K0650	CN19	Buffers.
34	2NC3009	6	10M	MON	.85	.26	0.0	3.6	10m	15	65	K0650	CN19	Buffers.
35	2NC4009	6	10M	MON	.80	.24	0.0	4.0	10m	0	75	K0650	CN19	Buffers.
36	SC108	6	10M	MON	.815	.21	0.0	5.0	750m	-55	125			6 RTL elements W/emitter common to subs.
37	SC109	6	10M	MON	.815	.21	0.0	5.0	750m	-55	125			6 RTL elements W/emitter common to subs.
38	6102	6	10M	PCB	-3.0	0.0	15	10	2.0	-20	55	K0646b	CB30	Fan in 1;Fan Out 2;RCT;9 ckts.
39	6105	6	10M	PCB	-3.0	0.0	15	10	788m	-20	85	K0646a	CB30	Inv;FI 1;FO 2;TpD 12ns;RCT 5 ckts.
40	6106	6	10M	PCB	-3.0	0.0	15	10	1.2	-20	85	K0646	CB30	Inv;FI 1;FO 2;TpD 12ns;RCT 6 ckts.
41	DC10CIG1	6	10M	PCB	-6.0	0.0	18	18		-55	55	K066		Contains 4 DC10IG1 Modules
42	G103	6	10M	PCB	-6.0	0.0	12	6	1.2	-55	71	K06107c	CB16	2 Logic Inverters.
43	G104A	6	10M	PCB	-6.0	0.0	12	6	1.1	-55	71	K0699	CB16	4 Circuits.
44	GA103	6	10M	PCB	-6.0	0.0	12	6.0	1.2	-55	71		CB16	2 Logic Inverters.
45	GA104A	6	10M	PCB	-6.0	0.0	12	6.0	1.1	-55	71		CB16	4 ckts.
46	IV912	6	10M	PCB	-6.0	0.0	12	12	2.7	-45	65	K061	CB1	12 Circuits
47	DC10MIG1	6	10M	PCM	-6.0	0.0	18	18		-55	55			2 Ckt;w/both Base and Emitter Available
48	TMC400	6	10M	TFH	6.0	0.0	3.0	6.0	50m	-55	125	K0629	FP10	1 ckt;TpD 1-10ns;tr 12ns;tf 12ns.
49	IN32-1	6	10M	3DM	-12	0.0	12	12	120m	-35	65	K0617	M15	2 ckt;Logic Inverter.
50	IN32-2	6	10M	3DM	-12	0.0	12	12	240m	-35	65	K0617d	M15	2 ckt;Logic Inverter;No Collector R.
51	MM10413	6	10M	3DM	6.0	0.0	6	18					MP38	
52	MM10413D	6	10M	3DM	6.0	0.0	6	18					MP38	2 Ckts/MD
53	WM10413	6	10M	3DM	6.0	0.0	6	18					M43	
54	WM10413D	6	10M	3DM	6.0	0.0	6	18					M43	
55	MMLI2001	6	15M		2.5	.25	3	3		-55	125	K0639	FP13	tr-20ns; tf-10ns
56	RG370P	6	20M	MON	3.4	.20	0	5.0	90m	-55	125		M105k	Hex Inverter;Fanout-15;Noise Margin-1.1V.
57	RG371P	6	20M	MON	3.4	.20	0	5.0	90m	-55	125		M105k	Hex Inverter;Fanout-7;Noise Margin-1.1V.
58	RG372P	6	20M	MON	3.4	.20	0	5.0	90m	0	75		M105k	Hex Inverter;Fanout-12;Noise Margin-1.1V.
59	RG373P	6	20M	MON	3.4	.20	0	5.0	90m	0	75		M105k	Hex Inverter;Fanout-6;Noise Margin-1.1V.
60	GAI3-20	6	20M	PCB	-6.0	0.0	12	6.0	385m	0	55	K0663	CB15	4 ckts;Fan Out-10.
61	NB1000	6	25M	MON	.82	.57	2.7	3.3		-55	125	K0649	CN29	
62	NB2000	6	25M	MON	.82	.57	2.7	3.3		0	100	K0649	CN29	
63	NB3000	6	25M	MON	.82	.57	2.7	3.3		15	55	K0649	CN29	
64	NC1009	6	25M	MON	.82	.57	2.7	3.3		-55	125	K0650	CN29	
65	NC2009	6	25M	MON	.82	.57	2.7	3.3		0	100	K0650	CN29	
66	MC1115	6	30M	MOH					250m	-55	125	K0614	CN9	2 ckt;ton 20ns;toff 45ns.
67	DC50CSIG1	6	50M	PCB	3.0	0.0	12	12		-10	100	K066a		4 DC01IG1 Modules
68	160MY	7							35m		T 3	K0713	ZB46	Voltage Level Converter
69	PN22-1	7			12	0.0	12	12	300m	-35	125	K0730a	M16	2 ckts;Pos. to Neg. Logic Converter.
70	LMD9	7		DCM	3.0%	30*	0.0	30	450m	0	100	K0762	M145a	Driver/Lever Shifter;Output current 200mA.
71	LMD10	7		DCM	0.0	30*	0.0	30	450m	0	100	K0763	M145a	Driver/Lever Shifter;Output current 200mA.
72	MC1511G	7		MOH	3.0	-.70	5.2	4.0	80	-55	125			Level Transistor ECT to DTL and TTL.
73	CD4009D	7		MON	4.9%	.25†	0.0	10	200m†	-55	125	K0759	Δ001AE	Hex Buffer/Logic-Level Conv;Inv.Type.
74	CD4010D	7		MON	4.9%	.25†	0.0	10	200m†	-55	125	K0759	Δ001AE	Hex Buffer/Logic-Level Conv;Non-Inv. Type.
75#	H113	7		MON					100m†	0	75		M105e	4ckts; tpD 120n typ.
76#	H114	7		MON					100m†	0	75		M105e	4 ckts; tpD 100n typ.
77	CD4009	7		MOS	10	0.0	0.0	10	50u	-55	125			Hex Buffer Logic Level Conv;Inverting type
78	CD4009E	7		MOS	4.9%	.25†	0.0	10	50u%	-40	85	K1011c	Δ001AC	Inverting Hex-buffer; tpD 200ns max.
79	CD4010	7		MOS	10	0.0	0.0	10	50u	-55	125			Hex Buffer Logic Level Conv;Non Inv Type.
80	CD4010E	7		MOS	4.9%	.25†	0.0	10	50u%	-40	85	K1011c	Δ001AC	Non inverting hex-buffer; tpD 200ns max.
81	SCL4009D	7		MOS	4.9%	.25†	0	10	200m†	-55	125		Δ001AE	Hex buffer/level converter;inverting.
82	SCL4009F	7		MOS	4.9%	.25†	0	10	200m†	-55	125		Δ004AG	Hex buffer/Level converter;inverting.
83	SCL4010D	7		MOS	4.9%	.25†	0	10	200m†	-55	125	K0759	Δ001AE	Hex Buffer/Level converter;non-inverting.
84	SCL4010F	7		MOS	4.9%	.25†	0	10	200m†	-55	125	K0759	Δ004AG	Hex buffer/level converter;non-inverting.
85#	SP751A	7		MOS	-2.7%	-.80*	25	0.0	80m†	0	70	K0539a	FP2	TTL-MOS Anal. Sw. Drivers.
86#	SP751B	7		MOS	-2.7%	-.80*	20	0.0	60m†	0	70	K0539a	FP2	TTL-MOS Anal. Sw. Drivers.
87#	SP752A	7		MOS	-2.7%	-.80*	30	5.0	80m†	0	70	K0539	FP2	TTL-MOS Logic Drivers.
88#	SP752B	7		MOS	-2.7%	-.80*	20	5.0	43m†	0	70	K0539	FP2	TTL-MOS Logic Drivers.
89	443#	7		PCB	2.0%	.45*	12	12	585m	0	70	K0734		10 Ckt; Output -12 to 0V.
90#	30614-01-2-268	7		PCB	-12	0.0	.60	0.0	5.4	0	50	K0723		5 to 8 or 8 to 5; level code.
91#	31711	7		PCB	-12	0.0	.60	0	5.4	0	50			8 to 12 or 12 to 8; Level Code.
92#	33098	7		PCB	-12	0.0	.60	0	5.4	0	50			5 to 12 or 12 to 5; Level Code.
93	IDA0245	7		PCB	2.5	0.0	12	12	1.0	0	75	K0736		Driver for IDA9001.
94	IDA0255	7		PCB	2.0%	1.1*	12	12	1.0	0	75		CB51	Driver for IDA9001
95	4685	7	50k	PCB	-3.0	0.0	30	10	2.4	-20	55	K0715	CB30	8ckts;Out 0to-30V;will supply 5.0mA at 0.0
96	GLC1-.2	7	200k	PCB	8.0	0.0	12	0.0	1.1	0	55	K0731	CB15	9 ckts;Output:One,-10V;Zero,0.0V.
97	GLC2-.2	7	200k	PCB	-10	0.0		12	6.2			K0732	CB15	4 ckts;Output:One,10V;Zero,0.0V.
98	GLC3-.2	7	200k	PCB	-10	0.0		6.0	800m			K0731a	CB15	8 ckts;Output:One,-4.3V;Zero,8.0V.
99	GLC4-.2	7	200k	PCB	-10	0.0		6.0	1.1			K0731b	CB15	8 ckts;Output:One,.90V;Zero,-1.5V.
100	GLC5-.2	7	200k	PCB	.60	-.60		0.0	910m			K0731c	CB15	8 ckts;Output:One,10.5V;Zero,-.25V.
101	GLC6-.2	7	200k	PCB	-7.7	-4.2	12	6.0	824m	0	55	K0731d	CB15	6 ckts;Output:One,10.5V;Zero,-.25V.
102	GLC9-.2	7	200k	PCB	-8.0	0.0	12	6.0	1.1	0	55	K073	CB15	10 ckts;Output:One,-10.5V;Zero,-.15V.
103	TIANM	7	200k	PCB	6.6	0.0	12	0.0	225m	0	50	K079	CB19	10 Level Shift Amplifier.
104	CT657-2	7	250k	PCB	-3.0	-11	12	12	570m	-54	71		CB16	
105	T657	7	250k	3DM			12	12	285m	-54	71	K0725	M17	2 Circuits.
106	T658	7	250k	3DM			12	12	285m	-54	71	K0725a	M17	2 Circuits.
107	T659	7	250k	3DM	-3.0	-11	12	0.0	300m	-54	71	K0727	M17	2 Circuits.
108	T660	7	250k	3DM	-3.0	-11	12	12	360m	-54	71	K0726	M17	2 Circuits.
109	1616	7	500k	PCB	-3.0	0.0	15	10	920m	-20	55	K0722	CB30	OS;FI1;FO 50;1 ckt;Out 500ns, 5.0V.
110	1672	7	500k	PCB	-3.0	0.0	15	10	863m	-20	55	K0715g	CB30	4 ckt;2.709 DEC Out 6.0V and -26V.

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) MAX. OPERATING FREQ. (3) PROCESS (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL		POWER SUPPLY SPAN		MAX. TOTAL PKG. DISS. (W)	TEMP.		DRAWINGS		GENERAL DESCRIPTION
					'1' (V)	'0' (V)	NEG. (V)	POS. (V)		LOW °C	HI °C	LOGIC DWG. No	OUTLINE DWG. No Δ=MO	
1	1685	7	500k	PCB	-3.0	0.0	15	10	2.3	-20	55	K0715e	CB30	4 ckt;High Power;Out Slow Tr and Tf.
2	1690	7	500k	PCB	-3.0	0.0	15	10	2.0	-20	55	K0715e	CB30	4 ckt;FI1;FO 15;Bus Driver.
3	1691	7	500k	PCB	-3.0	0.0	15	10	2.0	-20	55	K0715d	CB30	4 ckt;Bus Driver Amp.
4	1703	7	500k	PCB	-15	0.0	15	10	1.6	-20	55	K0715c	CB30	9 ckts;Converts to 0,-3.0V Logic Levels.
5	4504	7	500k	PCB	2.0	4.0	15	10	1.8	-20	55	K0717	CB30	6 ckts;Inv;In 15-12,Out 0-3.0;FO 8.
6	4505	7	500k	PCB			15	10	1.8	-20	55	K0717	CB30	6 ckts;In IBM N Block Ld;Out 0.0,3.0V.
7	4506	7	500k	PCB			15	10	1.5	-20	55	K0717	CB30	6 ckts;In IBM 0.0mA,6.0mA;Out 0.0,-3.0V.
8	4507	7	500k	PCB			15	10	1.8	-20	55	K0717	CB30	6 ckts;In IBM 0.0mA,13mA;Out 0.0,-3.0V.
9	4509	7	500k	PCB	-5.0	-16	15	10		-20	55		CB30	6 ckts;In 16,-.50V;Out 0.0,-3.0V.
10	4609	7	500k	PCB						-20	55		CB30	6 ckts;Pulse Amp.
11	4656	7	500k	PCB	-3.0	0.0	15	10		-20	55		CB30	6 ckts;Out-.50,-.12;Tr 3.0us;Tf 2.7us.
12	4659	7	500k	PCB	-3.0	0.0	15	10	1.5	-20	55	K0715a	CB30	4 ckts Out-1.0V and 1.5V IBMN-Trans Line.
13	4660	7	500k	PCB	-3.0	0.0	15	10	1.6	-20	55	K0715b	CB30	6 ckts Out-7.5V,-5.0V IBM P-Trans Line.
14	4686	7	500k	PCB	-3.0	0.0	0.0	10	40m	-20	55	K0714	CB30	5 ckts Out 0.0,20V max depending on E Sup
15	LC03	7	500k	PCB	2.0	1.0*	5.0	5.0		0	70	K0744		
16	ZLC1	7	500k	PCB	-3.0	-11	15	6.0		0	50	K074	CB14	12 Ckts/BD;Converts to 0.0 to-6.0 VDC resp
17	ZLC2Z	7	500k	PCB	0.0	-6.0	8.0	6.0		-25	100	K075	CB14	12 Ckts/BD;Converts to 8.0 to 0.0 VDC resp
18	L51038A	7	1.0M		-15	0.0	15	5	120m	-20	80			Negative to DTL Logic Converter.
19	L51039B	7	1.0M		-15	0.0	15	5	500m	-20	80			DTL to Negative Logic Converter.
20	1502	7	1.0M	PCB	-2.5	0.0	15	10	1.5	-20	55	K0717	CB30	6 ckts;10 to -50Vin;0.0 to -3.0Vout.
21	GLC7-1	7	1.0M	PCB	-10	0.0	12	6.0	5.6	0	55	K0731e	CB15	8 ckts;Output:One,1.0V;Zero,-2.0V.
22	GLC8-1	7	1.0M	PCB	1.0	-2.0	12	6.0	1.6	0	55	K0731f	CB15	8 ckts;Output:One,-10V;Zero,-.15V.
23	GLC9-1	7	1.0M	PCB	-8.0	0.0	12	6.0	1.4	0	55	K073	CB15	10 ckts;Output:One,-10V;Zero-.15V.
24	ILC0249	7	1.0M	PCB	2.0%	1.1*	6.0	5.0	620m	0	75		CB51	8 ckt.
25	ILC2273	7	1.0M	PCB	2.0%	1.1*	6	5	560m	0	75		CB51	ILC0249 with Gated Outputs
26	ITC0219	7	1.0M	PCB	2.0%	1.1*	6	5	447m	0	75		CB51	8 Ckts.
27	TIAPM	7	1.0M	PCB	6.6	0.0	0.0	12	225m	0	50	K079	CB19	10 Level Shift Amplifier.
28	L51003A	7	1.0M	TFH	-.75	-1.6	6	13	150m	-20	85			ConvertsLogicLevels to.20V;12.5V at80mA.
29	L51010A	7	1.0M	TFH	-.75	-1.6	6	24	150m	-20	85			ConvertsLogicLevels to.24V;.50V at 150mA
30	T807	7	1.0M	3DM			12	12	325m	-45	65	K0729	M17	2 Ckts
31	T808	7	1.0M	3DM			12	12	265m	-45	65	K0728	M17	2 Ckts
32	DM7800	7	2.0M	MON	-23	0	25	25	600m	-55	125			TTL to MOS Dual Voltage Translator.
33	DM8800	7	2.0M	MON	-23	0	25	25	600m	0	70			TTL to MOS Dual Voltage Translator.
34	4669	7	2.0M	PCB	-3.0	0.0	15	10	1.8	-20	55	K0716	CB30	6 ckts;Out IBM N-Line 600uA complement.
35	4670	7	2.0M	PCB	-3.0	0.0	15	10	1.4	-20	55	K0716a	CB30	6 ckts;Out IBM P-Line 600uA complement.
36	LC01	7	2.0M	PCB	1.9%	1.1*	5	5		0	70	K0742		12 Ckts.;converts DTL pos.to neg. logic.
37	LC02	7	2.0M	PCB	1.0%	.55*	0	5		0	70	K0743		6 pos. output level converter circuits.
38	LC1102A	7	2.0M	PCB	.80*	2.0%	6	5	393m†	0	75		CBØ	Level Converter,DTL to negative logic(6).
39	LC1102B	7	2.0M	PCB	-3.5*	-.5%	6	5	282m†	0	75		CBØ	Level Converter, Negative Logic to DTL(6)
40	LS31A	7	2.0M	PCB	-30*	0.0	0	4		0	70		CB10a	10 Ckts.;Neg. Output shift lever.
41	NP22-1	7	2.0M	3DM	-12	0.0	12	12	300m	-35	125	K0730	M16	2 ckts;Neg. to Pos. Logic Converter.
42	LC335	7	5.0M	MOH	-4.0%	0.0	6.3	6.3	960m	0	55		CB13	0V in - 6V out; -V in - 0V out.
43	LD335	7	5.0M	MOH	6.3*	1.1*	6.3	6.3	1.4	0	55		CB13	8 Drivers;Both 1 -GND;Either 0-Neg Supply.
44	1687	7	5.0M	PCB	-3.0	0.0	15	10	3.5	-20	55	K0720	CB30	3 ckts;Level Amp. Out 0.0,±6.5V.
45	1689	7	5.0M	PCB	-3.0	0.0	15	10	4.5	-20	55	K0715f	CB30	4 ckts;Out 8.0V and gnd drives 73Ω coax.
46	1692	7	5.0M	PCB	-3.0	0.0	15	10	3.2	-20	55	K0719	CB30	3 ckts;In 0.0,Out 6.0V;FI 3;FO 6;Gated.
47	1693	7	5.0M	PCB	-3.0	0.0	15	10	3.8	-20	55	K0718	CB30	3 ckts;Out Variable from -6.5V to 6.5V.
48	GLC9-5	7	5.0M	PCB	-8.0	0.0	12	6.0	1.7	0	55	K073	CB15	10 ckts;Output:One,-9.5V;Zero-.15V.
49	ILC0248	7	5.0M	PCB	3.5%	2.0*	6	5	270m	0	75		CB51	8 Ckts - 0 and -5V to 0 and 2.5V.
50	ILC2274	7	5.0M	PCB	2.0%	1.1*	0	5	620m	0	75		CBØ	Level Converters w/gated input.
51	LS32	7	5.0M	PCB	-30*	0.0	0	4		0	70		CB10a	10 Ckts.;Neg. Output shift lever.
52	L51001A	7	5.0M	TFH	-.75	-1.6	6	13	150m	-20	85			Converts Logic Levels to .20V; 12.5V.
53	L51002A	7	5.0M	TFH	-.75	-1.6	13	3	150m	-20	85			Converts Logic Levels to .20V; 12.5V.
54	L51004A	7	5.0M	TFH	24*	.20	6	13	150m	-20	85			Converts Logic Levels to -.75V;-1.55V.
55	L51005A	7	5.0M	TFH	-24*	-.20	13	3	150m	-20	85			Converts Logic Levels to -.75V;-1.55V.
56	MC1511	7	15M		.76	2.0	5.2	4.0	25m	-55	125	K071	CN8a	Converts DTL to ECT Logic Level.
57	MC1017L	7	40M	MON	-.75	-1.6	8	8	105m	0	75	K0748	TO116	(DTL-TTL) to MECL Dual Translator.
58	MC1018L	7	40M	MON	.45	4.6	8	8	70m	0	75	K0749	TO116	MECL to (DTL-TTL) Logic Translator.
59	GEL1494AD	9					0.0	5.0	250m			K09103		Precision Threshold Detector w/Hysteresis
60	GEL304A1	9		MON	5.5	4.8	0.0	9.0	500m	-40	100	K09103	TO101	Precision Threshold Detector w/Hysteresis
61	SG83	9		MON	1.4	.80	0.0	5.0	15m	0	75	K0944	ZB100	Fan Out 5;Vout 3.3;250m resp;tpd 12ns.
62	IST0226	9		PCB			6	12	120m	0	75	K0942	CB51	4 Differential Comparators.
63	DCST1071	9		PCM	6.0%	1†*	6	12		-55	125	K0923	CB29	Schmitt Trigger and Buffer Amp.
64	8205	9		TFH	3.5	.50	3.0	6.0	150m	-55	125	K095	M7	
65	B895000	9		3DM	6.0	0.0	6.0	6.0		-20	60	K092	M4	Followed by Inverter Circuit.
66	DBST1071	9		3DM	6.0%	1†*	6	12		-55	125	K0923	M52	Schmitt Trigger and Buffer Amp.
67	T106Δ	9		3DM	-3.0	-11	12	0.0	60m	-45	65	K099	M17	Squaring Amplifier.
68	13D	9	10k%	3DM	0.0	12.5	6.0	24	380m	-10	70	K0931	ZB38	1 Circuit.
69	2STM	9	100k	PCB	-10	0.0	12	12		0	50		CB19	2 Schmitt Triggers;2 AC Amps.
70	G307	9	100k	PCB	-6.0	0.0	12	6.0	190m	-55	71		CB16	Squaring Amplifier.
71	GA307	9	100k	PCB	-6.0	0.0	12	6.0	190m	-55	71		CB16	Squaring Amplifier.
72	GST1-.2	9	200k	PCB	-10	0.0	12	6.0	720m	0	55	K0933	CB15	4 ckts;Input:±20V max.
73	GST2-.2	9	200k	PCB	-10	0.0	12	6.0	470m	0	55	K0934	CB15	2 ckts;Input:±12V max.
74	ST8204	9	250k	3DM	0.0	-12	12	0.0		-54	71	K091	M2	2.0V Shift from GRD to get Norm. Sig. Out.
75	SST23	9	300k									K094	CB10	2 Ckts;±150mV Performance.
76	489Δ	9	300k	PCB	-6.8	0.0	12	12	1.2	0	55		CB24	2 Schmitt Trigger.
77	ST3	9	300k	PCB	0.0	-10	12	20	1.1	-20	55	K094	CB10	2 Ckts;±50mV Performance.
78	4410	9	500k	PCB	-2.5	-1.0	15	10	1.1	-20	55	K0924	CB30	1 ckt;±10V Range 400ns pulse out.
79	CT106-4	9	500k	PCB	-3.0	-11	12	0.0	60m	-45	65		CB16	4 Squaring Amplifiers.
80	EM2505	9	500k	3DM	0.0	-6.0	12	6.0	255m	-55	71	K096	M62b	tr 300nsec;tf 1.0usec.
81	ST8304	9	500k	3DM	0.0	12	0.0	12		-25	125	K091a	M2	2.0V Shift from GRD to get Norm. Sig. Out.
82	DBST1071ZA	9	1.0M		6.0	1.0†	6.0	12		0	50	K0923	CB29	Tr 70ns; tf 15ns.
83	DBST1071ZAN	9	1.0M		6.0	1.0†	6.0	12		0	50	K0923	CB29	Tr 70ns; tf 15ns.
84	DBST1071ZB	9	1.0M		6.0	1.0†	6.0	12		-20	75	K0923	CB29	Tr 70ns; tf 15ns.
85	DBST1071ZBN	9	1.0M		6.0	1.0†	6.0	12		-20	75	K0923	CB29	Tr 70ns; tf 15ns.
86	DBST1071ZC	9	1.0M		6.0	1.0†	6.0	12		-40	100	K0923	CB29	Tr 70ns; tf 15ns.
87	DBST1071ZCN	9	1.0M		6.0	1.0†	6.0	12		-40	100	K0923	CB29	Tr 70ns; tf 15ns.
88	DBST1071ZD	9	1.0M		6.0	1.0†	6.0	12		-55	125	K0923	CB29	Tr 70ns; tf 15ns.
89	DBST1071ZDN	9	1.0M		6.0	1.0†	6.0	12		-55	125	K0923	CB29	Tr 70ns; tf 15ns.
90	DCST1071ZA	9	1.0M		6.0	1.0†	6.0	12		0	50	K0923	CB29	Tr 70ns; tf 15ns.
91	DCST1071ZB	9	1.0M		6.0	1.0†	6.0	12		-20	75	K0923	CB29	Tr 70ns; tf 15ns.
92	DCST1071ZC	9	1.0M		6.0	1.0†	6.0	12		-40	100	K0923	CB29	Tr 70ns; tf 15ns.
93	DCST1071ZD	9	1.0M		6.0	1.0†	6.0	12		-55	125	K0923	CB29	Tr 70ns; tf 15ns.
94	E002-1	9	1.0M		8.0	0.0	0.0	12	100m	-55	125	K0918		1 ckt;Trigger Volt 3.9V.
95	E002-2	9	1.0M		8.0	0.0	0.0	12	100m	-55	125	K0918a		2 ckt;Trigger Volt 3.9V.
96	E002-3	9	1.0M		8.0	0.0	0.0	12	100m	-55	125	K0918b		3 ckt;Trigger Voltage 3.9V.
97	E002-4	9	1.0M		8.0	0.0	0.0	12	100m	-55	125	K0918c		4 ckt;Trigger Voltage 3.9V.
98	WC208D	9	1.0M	MON			0	6	20m	0	75		TO116	With Adj. Threshold and Hysteresis.
99	WC208G	9	1.0M	MON			0	6	20m	0	75		TO84	With Adj.Threshold and Hysteresis.
100	WC208T	9	1.0M	MON			0	6	20m	0	75		CN18	With Adj.Threshold and Hysteresis.
101	WCT208D	9	1.0M	MON			0	12	60m†	0	75		TO116	With Adj. Threshold and Bysteresis.
102#	WM208G	9	1.0MØ	MON			6.0	12		-55	125	K0920	FP69	Level detector.
103#	WM208Q	9	1.0MØ	MON			6.0	12		-55	125	K0920	FP68	Level detector.
104#	WM208T	9	1.0MØ	MON			6.0	12		-55	125	K0920	CN6a	Level detector.
105	4ATH	9	1.0M	PCB	-10	0.0	12	12	1.0	0	50	K0917	CB19	4 Schmitt Triggers.
106	CT312-2	9	1.0M	PCB	-3.0	-11	12	0.0	380m	-55	71		CB16	2 Squaring Amplifiers.
107	GST1-1	9	1.0M	PCB	-10	0.0	12	6.0	780m	0	55	K0933	CB15	4 ckts;Input:±20V max.
108	GST2-1	9	1.0M	PCB	-10	0.0	12	6.0	540m	0	55	K0934	CB15	2 ckts;Input:±12V max.
109	ST30	9	1.0M	PCB	-6.0	0.0	18	12	2.0	-20	55		CB13a	2 Ckt; Var. Threshold ±2.0V.
110	ST31	9	1.0M	PCB	3.0	0.0	12	4		0	70		CB10a	2 Ckts.;Adj.Threshold Fan Out-30.

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) MAX. OPERATING FREQ.
(3) PROCESS (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL '1' (V)	LOGIC LEVEL '0' (V)	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	MAX. TOTAL PKG. DISS. (W)	TEMP. LOW °C	TEMP. HI °C	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO	GENERAL DESCRIPTION
1	ST200	9	1.0M	PCB	10	.40	6.0	12	1.2	-55	100	K098	CB15	2 ckt;Trigger Range 6-10V.
2	ST5501	9	1.0M	PCB			6	5	232m	0	70		CB56	2 Schmitt Triggers
3	ULC2Z	9	1.0M	PCB	0.0	-6.0	15	6	1.8	0	50	K097	CB14	6 Ckts/BD;Fan Out-6.
4	T312	9	1.0M	3DM	-3.0	-11	12	0	190m	-55	71	K0911	M17	Squaring Amplifier
5	SST3	9	1.5M		8		12	12	1.2	-40	75	K094	CB10	2 Ckt; ±100MV performance
6	ST1415B	9	1.5M	TFH	3.5	2.0	0	9	70m	-55	125	K0930	M57	Fan-In-1; Fan-Out-6.
7	ST1425B	9	1.5M	TFH	3.5	2.0	0	9	70m	-55	125	K0930	M57a	Fan-In-1; Fan-Out-6.
8	ST1514B	9	1.5M	TFH	3.5	2.0	0	12	35m	-55	125	K0930	M57	Fan-In-1; Fan-Out-6.
9	ST1524B	9	1.5M	TFH	3.5	2.0	0	12	35m	-55	125	K0930	M57a	Fan-In-1; Fan-Out-6.
10	ST2514B	9	1.5M	TFH	3.5	2.0	0	12	35m	-55	125	K0935		Schmitt Trigger With Isolated Bias.
11	ST2514G	9	1.5M	TFH	3.5	2.0	0	12	35m	-55	125	K0935		Zero Hysteresis Schmitt Trigger.
12	ST2524B	9	1.5M	TFH	3.5	2.0	0	12	35m	-55	125	K0935		Schmitt Trigger With Isolated Bias.
13	ST2524G	9	1.5M	TFH	3.5	2.0	0	12	35m	-55	125	K0935		Zero Hysteresis Schmitt Trigger.
14	LCE211	9	2.0M	MOH	-6.0	0.0†	12	6		-10	55		CN27	
15	1410	9	2.0M	PCB	-2.5	-1.0	15	10	610m	-20	55	K0924	CB30	FI 1;FO 8;Out 70ns Pulse,12ms Intg.
16	AX12	9	2.0M	PCB	8.0	0.0	25	25	3.4	-55	100	K0927	CB34	3 ckts;Hgs and Trig Adjust;Fanout 10.
17	ST3A	9	2.0M	PCB	0.0	-10	12	20	1.2	-20	55	K094	CB10	2 Ckt. ±50MV performance
18	EM2605	9	2.0M	3DM	0.0	-6.0	12	6	350m	-55	71	K096	M62b	tr 25ns; tf 32ns.
19	EM3005	9	2.0M	3DM	0.0	6.0	6	12	300m	-55	125	K0939	M62b	Variable Trigger Level
20	ST35	9	3.0M	PCB	-6.0	0.0	18	12	2.0	-20	55		CB13a	2 Ckt; Var. Threshold ±2.0V.
21	DBST1071YA	9	5.0M		6.0	1.0†	6.0	12		0	50	K0923	CB29	Tr 70ns; tf 15ns.
22	DBST1071YAN	9	5.0M		6.0	1.0†	6.0	12		0	50	K0923	CB29	Tr 70ns; tf 15ns.
23	DBST1071YB	9	5.0M		6.0	1.0†	6.0	12		-20	75	K0923	CB29	Tr 70ns; tf 15ns.
24	DBST1071YBN	9	5.0M		6.0	1.0†	6.0	12		-20	75	K0923	CB29	Tr 70ns; tf 15ns.
25	DBST1071YC	9	5.0M		6.0	1.0†	6.0	12		-40	100	K0923	CB29	Tr 70ns; tf 15ns.
26	DBST1071YCN	9	5.0M		6.0	1.0†	6.0	12		-40	100	K0923	CB29	Tr 70ns; tf 15ns.
27	DBST1071YD	9	5.0M		6.0	1.0†	6.0	12		-55	125	K0923	CB29	Tr 70ns; tf 15ns.
28	DBST1071YDN	9	5.0M		6.0	1.0†	6.0	12		-55	125	K0923	CB29	Tr 70ns; tf 15ns.
29	DCST1071YA	9	5.0M		6.0	1.0†	6.0	12		0	50	K0923	CB29	Tr 70ns; tf 15ns.
30	DCST1071YB	9	5.0M		6.0	1.0†	6.0	12		-20	75	K0923	CB29	Tr 70ns; tf 15ns.
31	DCST1071YC	9	5.0M		6.0	1.0†	6.0	12		-40	100	K0923	CB29	Tr 70ns; tf 15ns.
32	DCST1071YD	9	5.0M		6.0	1.0†	6.0	12		-55	125	K0923	CB29	Tr 70ns; tf 15ns.
33	NC17	9	5.0M	MOH	5.0	0.0	0	12	200m	-55	125	K0929	CN45	Fan Out-5; Prop. delay -20nsec.
34	PC17	9	5.0M	MOH	5.0	0.0	0	12	200m	-55	125	K0929	FP8g	Fan-Out-5; Prop. Delay-20nsec.
35	ST335	9	5.0M	MOH	6.3*	1.1*	0	6.3	900m	0	55	K0936	CB13	Tr.Level Adj. to ±2.5V;Input 6*-20Vmax.
36#	FCL102	9	5.0M	MON	2.5%	.45*	0	6	19m	-55	125		TO84	Schmitt Trigger.
37	CT306-1	9	5.0M	PCB	-3.0	-11	12	0.0	215m	-55	71		CB16	2 Squaring Amplifiers.
38	CT306-2	9	5.0M	PCB	-3.0	-11	12	0.0	215m	-55	71	K0913	CB16	2 Squaring Amplifiers.
39	GST1-5	9	5.0M	PCB	-10	0.0	12	6.0	840m	0	55	K0933	CB15	4 ckts;Input:±20V max.
40	GST2-5	9	5.0M	PCB	-10	0.0	12	6.0	610m	0	55	K0934	CB15	2 ckts;Input:±12V max.
41	ST4	9	5.0M	PCB	0.0	-10	12	20	1.2	-20	55	K094	CB10	2 Ckt. ±50MV performance
42	ST336	9	5.0M	PCB	1.55*	1.35%	6	6	900m	0	55	K0747a		2 Ckt; Input 6V to -20V max.
43	ST2415B	9	5.0M	TFH	3.5	2.0	0	9	70m	-55	125	K0935		Schmitt Trigger With Isolated Bias.
44	ST2415G	9	5.0M	TFH	3.5	2.0	0	9	70m	-55	125	K0935		Zero Hysteresis Schmitt Trigger.
45	ST2425B	9	5.0M	TFH	3.5	2.0	0	9	70m	-55	125	K0935		Schmitt Trigger With Isolated Bias.
46	ST2425G	9	5.0M	TFH	3.5	2.0	0	9	70m	-55	125	K0935		Zero Hysteresis Schmitt Trigger.
47	ST8404	9	5.0M	3DM	0.0	-12	12	0		-25	60	K091	M2	2.0V Shift frm GRD to get Norm.sig.out
48	DBST1071XA	9	10M		6.0	1.0†	6.0	12		0	50	K0923	CB29	Tr 70ns; tf 15ns.
49	DBST1071XAN	9	10M		6.0	1.0†	6.0	12		0	50	K0923	CB29	Tr 70ns; tf 15ns.
50	DBST1071XB	9	10M		6.0	1.0†	6.0	12		-20	75	K0923	CB29	Tr 70ns; tf 15ns.
51	DBST1071XBN	9	10M		6.0	1.0†	6.0	12		-20	75	K0923	CB29	Tr 70ns; tf 15ns.
52	DBST1071XC	9	10M		6.0	1.0†	6.0	12		-40	100	K0923	CB29	Tr 70ns; tf 15ns.
53	DBST1071XCN	9	10M		6.0	1.0†	6.0	12		-40	100	K0923	CB29	Tr 70ns; tf 15ns.
54	DBST1071XD	9	10M		6.0	1.0†	6.0	12		-55	125	K0923	CB29	Tr 70ns; tf 15ns.
55	DBST1071XDN	9	10M		6.0	1.0†	6.0	12		-55	125	K0923	CB29	Tr 70ns; tf 15ns.
56	DCST1071XA	9	10M		6.0	1.0†	6.0	12		0	50	K0923	CB29	Tr 70ns; tf 15ns.
57	DCST1071XB	9	10M		6.0	1.0†	6.0	12		-20	75	K0923	CB29	Tr 70ns; tf 15ns.
58	DCST1071XC	9	10M		6.0	1.0†	6.0	12		-40	100	K0923	CB29	Tr 70ns; tf 15ns.
59	DCST1071XD	9	10M		6.0	1.0†	6.0	12		-55	125	K0923	CB29	Tr 70ns; tf 15ns.
60	AT22	9	10M	PCB	4.0	0.0	8	8	750m	5	71		CB37a	Fan Out 24.
61	6G81G	9	20M	MON	1.4	.80	0.0	5.0	15m	-55	125	K0944	TO84	Fan Out 6;Vout 3.3;250m resp;tpd 12ns.
62	6G81K	9	20M	MON	1.4	.80	0.0	5.0	15m	-55	125	K0944	TO116	Fan Out 6;Vout 3.3;250m resp;tpd 12ns.
63	6G82D	9	20M	MON	1.4	.80	0.0	5.0	15m	0	75	K0944	TO116	Fan Out 10;Vout 3.3;250m resp;tpd 12ns.
64	6G82G	9	20M	MON	1.4	.80	0.0	5.0	15m	0	75	K0944	TO84	Fan Out 10;Vout 3.3;250m resp;tpd 12ns.
65	6G83D	9	20M	MON	1.4	.80	0.0	5.0	15m	0	75	K0944	TO116	Fan Out 5;Vout 3.3;250m resp;tpd 12ns.
66	6G83G	9	20M	MON	1.4	.80	0.0	5.0	15m	0	75	K0944	TO84	Fan Out 5;Vout 3.3;250m resp;tpd 12ns.
67	SG80	9	20M	MON	1.4	.80	0.0	5.0	15m	-55	125	K0944	ZB100	Fan Out 12;Vout 3.3;250m resp;tpd 12ns.
68	SG81	9	20M	MON	1.4	.80	0.0	5.0	15m	-55	125	K0944	ZB100	Fan Out 6;Vout 3.3;250m resp;tpd 12ns.
69	SG82	9	20M	MON	1.4	.80	0.0	5.0	15m	0	75	K0944	ZB100	Fan Out 10;Vout 3.3;250m resp;tpd 12ns.
70	ST12	9	20M	PCB	-12	0.0	12	6.0	500m	-10	55	K0928	CB33	2 Ckt;in 0 to ±12V or 0 to ±120V.
71	UI131	10			5.0%	1.5*		18						Trans. State Indicator.
72	RG7520P	10		MON	3.4	.20	0	5.0	120m	-55	125		M105k	Lamp Driver;tpd-15nsec;Noise Margin-1.1V.
73	RG7521P	10		MON	3.4	.20	0	5.0	120m	-55	125		M105k	Lamp Driver;tpd-15nsec;Noise Margin-1.1V.
74	RG7522P	10		MON	3.4	.20	0	5.0	120m	0	75		M105k	Lamp Driver;tpd-15nsec;Noise Margin-1.1V.
75	RG7523P	10		MON	3.4	.20	0	5.0	120m	0	75		M105k	Lamp Driver;tpd-15nsec;Noise Margin-1.1V.
76	RG7540P	10		MON	3.4	.20	0	5.0	60m	-55	125		M105k	Lamp Driver;tpd-15nsec;Noise Margin-1.1V.
77	RG7541P	10		MON	3.4	.20	0	5.0	60m	-55	125		M105k	Lamp Driver;tpd-15nsec;Noise Margin-1.1V.
78	RG7542P	10		MON	3.4	.20	0	5.0	60m	0	75		M105k	Lamp Driver;tpd-15nsec;Noise Margin-1.1V.
79	RG7543P	10		MON	3.4	.20	0	5.0	60m	0	75		M105k	Lamp Driver;tpd-15nsec;Noise Margin-1.1V.
80	SI4001I	10		MON	1.9	.80	0.0	40	600m	0	70			4 Input dual lamp and relay driver.
81	SI4001M	10		MON	1.9	.80	0.0	40	600m	-55	125			4 Input dual lamp and relay driver.
82	SI4002I	10		MON	1.9	.80	0.0	40	600m	0	70			3 Input dual lamp and relay driver.
83	SI4002M	10		MON	1.9	.80	0.0	40	600m	-55	125			3 Input dual lamp and relay driver.
84	SW729-1D	10		MON	1.8%	1.2*	0.0	8.0	44m	-55	125	K1020	TO85	DTL;Noise Rej. 1.0V.
85	SW729-2D	10		MON	1.8%	1.2*	0.0	8.0	44m	0	75	K1020	TO85	DTL;Noise Rej. 1.0V.
86	4901	10		PCB	-15	0.0	15	0.0	3.1	-20	55	K1014c	CB30	15 ckts;bulbs included.
87	4906	10		PCB	-3.0	0.0	15	0.0	450m	-20	55	K1014b		1 ckt;bulb included.
88	ID012	10		PCB	-10	0.0	12	6	370m	-10	55	K1015	CB33	12Ckt;-10V in-Load on;0V in-Load off
89	IL101	10		PCB	-6.0	0.0	12	12	900m	-45	65	K101	CB1	VSW max.-24V;10 Ckt;BCD-Dec-8421-2421
90	IL102	10		PCB	-6.0	0.0	12	12	3.1	-45	65	K102	CB1	VSW max.-24VDC;10SW Ckt;Dec. in 10 Line
91	QT10	10		PCB	4.0	0.0	0.0	28		5	71		CB37a	12 Drivers/Ckt.
92	QX13	10		PCB	8.0	0.0	25	2.5	2.5	-55	100	K1033	CB34	Driver 10 Lamps;Decode Binary to Decimal.
93	EM2516	10		3DM	0.0	-6.0	12	6.0		-55	71	K1019	M62	
94	LD12-1	10		3DM	-12	0.0	0.0	12	200m	-35	65	K106	M15	2 ckts;8.0mA max;28V max.
95	LD22-1	10		3DM	12	0.0	12	0.0	200m	-35	125	K106a	M16	2 ckts;8.0mA max;28V max.
96	MM14433	10		3DM			6	0					MP38	Output-40ma at 24V
97	SLD1	10	1.0k					28						8 Ckt;Ic 150mA max.
98	SLD2	10	1.0k					28						8 Ckt;Ic 25mA max;Z in 22k.
99	SLD3	10	1.0k					28						10 Ckt;Ic 150mA max.
100	SLD4	10	1.0k					28						10 Ckt;Ic 25mA max;Z in 22k.
101	LD1	10	1.0k	PCB	-10	0.0	28	6.0		-20	55		CB10	8 Ckt;Ic 150mA max.
102	LD2	10	1.0k	PCB	-10	0.0	28	6.0		-20	55		CB10	8 Ckt;Ic 25mA max;Z in 22k.
103	LD3	10	1.0k	PCB	-10	0.0	28	6.0		-20	55		CB10	10 Ckt;Ic 150mA max.
104	LD4	10	1.0k	PCB	-10	0.0	28	6.0		-20	55		CB10	10 Ckt;Ic 25mA max;Z in 22k.
105	LD5305	10	1.0k	PCB	2.6%	.50*	0.0	5.0	900m	0	70		CB56	10 Lamp Drivers 35V, 250mA.
106	LD331	10	10k	MOH	6.3*	1.1*	0.0	6.3	1.3	0	55		CB13	8 Ckts;1 In Both-On;Either 0-Off.
107	ILD0207	10	.01M	PCB	2.0%	40*	0	5	60m	0	75	K1030	CB51	10Drivers;Iload max.50mA;Vload max.28VDC
108	LD30	10	10k	PCB	-6.0	0.0	18	12	1.7	-20	55	K1026	CB13a	14 Ind. Ckts;70mA max;Bet. -6.0V and-24V.
109	LRD1103	10	10k	PCB	2.2%	.70*	0.0	5.0	2.2	0	75		CB⧄	6 Lamp or Relay Drivers;ea. 400mA at 40V.
110	LD330	10	100k	MOH	6.3*	1.1*	0.0	6.3	840m	0	55		CB13	12 Ckts;1 High Output;0 GND.

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) MAX. OPERATING FREQ. (3) PROCESS (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL '1' (V)	LOGIC LEVEL '0' (V)	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	MAX. TOTAL PKG. DISS. (W)	TEMP. LOW °C	TEMP. HI °C	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO	GENERAL DESCRIPTION
1	DC1MLD1	10	100k	PCM	-6.0	0.0	18	18		-55	55			2 Ckts;-30V at 40mA Output.
2	DC1MLD2	10	100k	PCM	-6.0	0.0	18	18		-55	55			2 Ckts;-40V at 200mA Output.
3	DC1MRD2	10	100k	PCM	-6.0	0.0	18	18		-55	55			2 Ckts;-30V at 1.0A Output.
4	11G3346	10	200k	PCB	8.2	0.0	0.0	28			85	K1032	CB49	10 Ckts;150mA at 28V max each.
5	GDD1-.2	10	200k	PCB	-10	0.0	12	6.0	4.7m	0	55	K1017	CB15	6 ckts;1/2 Binary to Decimal.
6	RJ10	10	200k	PCB	5.5	0.0	0.0	8.0	1.5	0	70		CB37a	8 Bit Drivers with input AND/OR gating.
7	QT16	10	250k	PCB	4.0	0.0	0.0	8.0	2.1	5.0	71		CB37a	4 Bit Decoder net;10 Line Drivers.
8	EM2515	10	250k	3DM	0.0	-6.0	6.0	6.0		-55	71	K1018	M62a	2 Ckts;Output:80mA max. 20V max.
9	472	10	300k	PCB	-6.8	0.0	12	12	1.1	0	55		CB24	10 Section Gated Lamp Drivers.
10	4691	10	500k	PCB	-3.0	0.0	15	0.0	4.6	-20	55	K1013	CB30	9 ckts;30mA Out each ckt.
11	4689	10	1.0M	PCB	-3.0	0.0	15	0.0	40m	-20	55	K109	CB30	9 ckts;-3.0V In;-20V Out max.
12	LD31	10	1.0M	PCB	120	0.0	0.0	4.0		0	70		CB10	10 Ckts;Versitile Pos. out shift lever.
13	CD1414G	10	1.0M	TFH	5.0	2.0	0	12	40m	-55	125	K1016		500 mA current driver
14	QX14	10	1.5M	PCB	8.0	0.0	25	25	4.2	-55	100		CB34	12 Lamp Drivers w/registers.
15	DC2MLD2	10	2.0M	PCM	-6.0	0.0	18	18		-55	55			2 Ckt. -40V at 200mA Output
16	DC2MSLD2	10	2.0M	PCM	6.0	0.0	18	18		-55	100			2 Ckt. -40V at 200mA Output
17	EM3016	10	2.0M	3DM	0.0	6.0	6.0	12	135m	-55	125	K1023	M62	Iout 80mA;Vout 40V max.
18	IL5H	10	5.0M	MOH	0.0	5.0	0	32	3.2	0	100	K1021	CB7	5 Ckt; 32V at 100mA out;Ckt delay 500ns.
19	IL5L	10	5.0M	MOH	0.0	5.0	0	32	3.2	15	55	K1021	CB7	5 Ckt; 32V at 100mA out;Ckt delay 500ns.
20	IL5M	10	5.0M	MOH	0.0	5.0	0	32	3.2	0	70	K1021	CB7	5 Ckt; 32V at 100mA out;Ckt delay 500ns.
21	DD31#	10	5.0M	PCB	-6.0	0.0	18	12		-20	55	K1027	CB13a	Drives Display from 4-Bit BCD Input.
22	ND31	10	5.0M	PCB	-6.0	0.0	18	12		-20	55	K1028	CB13a	BCD/Decimal; Nixie Tube Driver.
23	CD1514B	10	5.0M	TFH	5.0	2.0	0	12	30m	-55	125	K1016	M57	100mA current driver.
24	CD1524B	10	5.0M	TFH	5.0	2.0	0	12	30m	-55	125	K1016	M57a	100mA current driver.
25	1675	10	10M	PCB	-3.0	0.0	15	10	4.1	-20	55	K109	CB30	9 ckts;FI 1;FO 30;327 Lamps.
26	4902	10	10M	PCB	-3.0	0.0	15	0.0	2.3	-20	55	K1014		7 ckts;Bulb included.
27	4903	10	10M	PCB	-3.0	0.0	15	0.0	8.1	-20	55	K1014a		18 ckts;Bulb included.
28	QT14	10	10M	PCB	4.0	0.0	0.0	8.0	2.4	5.0	71	K1034	CB37a	
29	WM14433	10	10M	3DM	6.0	0.0	6	24					M43	Output-40ma at 24V
30	DD200	10	500M	PCB	10	.40	6.0	12	9.0	-55	100	K105	CB15	6 ckt;2W/Node;28V at 250mA out.
31	UI110	11			3.5%	1.6*		90						Trans. State Indicator.
32	UI130	11			5.0%	1.5*		18						Trans. State Indicator.
33	1001-005	11		PCB	8.5	0.0	15	170		-55	85	K1116a		10 ckts with neon lights;Drive 16 per ckt.
34	1026-0019	11		PCB	6.5	0.0	13	105		-55	85	K1116		10 ckts with neon lights;Drive 16 per ckt.
35	DP101	11		PCB	10	0.0				28	85		CB3	BCD to BiQuinary code;Incl.output drive
36	G507	11		PCB	-6.0	0.0	6	0	560m	-55	71		CB16	8 Neon Drivers.
37	G508	11		PCB	-6.0	0.0	6	0	740m	-55	71		CB16	10 Neon Drivers.
38	GA507	11		PCB	-6.0	0.0	6.0	0.0	560m	-55	71		CB16	
39	GA508	11		PCB	-6.0	0.0	6.0	0.0	740m	-55	71		CB16	
40	IDN0330	11		PCB	1.0%	.50*				0	75			Dual BCD Decoder with Nixie Drivers
41	ND101	11		PCB	-6.0	0.0	12	12	850m	-45	65	K112	CB1	Ic max.-14mA;BCD-Dec.-8421-2421;10 Ckt.
42	ND102	11		PCB	-6.0	0.0	12	12	850m	-45	65	K111	CB1	Ic max.-14mA;10SW Ckt;Dec. in 10 Line.
43	NL101	11		PCB	-6.0	0.0	100	12	3.4	-45	65	K113	CB1	10SW Ckt with NE-2;max 2-NE2 per Ckt.
44	NL102	11		PCB	-6.0	0.0	100	12	3.4	-45	65	K113	CB1	NL101 without NE-2
45	NL103	11		PCB	-6.0	0.0	100	12	3.4	-45	65	K114	CB1	NL101 with BCD-Dec. Conv-8421-2421
46	NL104	11		PCB	-6.0	0.0	100	12	3.4	-45	65	K114	CB1	NL103 without NE-2
47	QX12	11		PCB	8.0	0.0	25	200	1.0	-55	100		CB34	10 ckts;Driver Numeric Neon Indicators.
48	B100-20	11		3DM	±12*	±9*	0	180		-20	85	K1121	M50	Inline Numerical Display
49	B100-21	11		3DM	±12*	±7*	0	200		-20	85	K1122	M50	Inline Numerical Display
50	BIP8503	11		3DM	0.0%	-12		170		0	71			Alphanumeric nixie tube driver.
51	BIP8509	11		3DM	0.0%	-12		170		0	71			Alphanumeric nixie tube driver.
52	BIP8510	11		3DM	0.0%	-12		170		0	71			Alphanumeric nixie tube driver.
53	PM10583	11		3DM			120	0					ZB37	Output-50ma at max
54	SND2	11	1.0k					12						10 Ckt;Vcc to ±150V.
55	8NID	11	1.0k	PCB	-10	0.0	100	12	950m	0	50	K1113	CB19	8 Neon Indicators and Drivers.
56	ND2	11	1.0k	PCB	-10	0.0	12	6.0		-20	55		CB10	10 Ckt;Vcc to -150V.
57	BIP6002	11	100k	3DM	-12	0.0	12	170		0	55	K1110	M11	2 Latch ckts. use as Memory Element.
58	BIP8501P	11	100k	3DM	2.0	0.0	0.0	200		-20	85	K119	M9	Decimal readout from low level DC input.
59	BIP8507P	11	100k	3DM	2.0	0.0	0	200		-20	85	K119a	M9	± Neon Readout.
60	BIP9501	11	100k	3DM	0.0	-12	12	170		0	55	K1127a	M10	Drive numeric neon tube.
61	BIP9502	11	100k	3DM	0.0	-12	12	170		0	55	K1127	M10	Drive alpha - numeric neon tube.
62	GND1	11	200k	PCB	-10	0.0	12	6.0	1.2	0	55	K1126	CB15	8421 BCD Input.
63	ND2Z	11	250k	PCB	0.0	-6.0	15	6.0	52m	0	100	K1112	CB14	8.0 VDC and 0.0 VDC Input Level also.
64	ND254	11	250k	3DM	0.0	-12	12	0.0		-54	71	K116	M1	10 are required for Decimal Indication.
65	ND255	11	250k	3DM	0.0	-12	0.0	12		-54	71	K117	M1	Indicator on at Ground Level.
66	ND5306	11	500k	PCB	2.6%	.50*	0.0	5.0	500m	0	70		CB56	10 Nixie/Neon Drivers.
67	NS7673	11	1.0M	MOH	2.0	.50	0.0	45	500m	-55	125	K1131	CN59	DTL or RTL Inputs.
68	ITT1056#2	11	1.0MΔ	MOS	-10%	-2.0*	27	13		-55	85	K15331	M214	MOS Counter Decoder Driver;tpd 2.5us.
69	IN5H	11	5.0M	MOH	0.0	5.0	0.0	32	2.5	0	100	K115	CB7	5 ckt;250V at 10mA out;ckt delay 100ns.
70	IN5L	11	5.0M	MOH	0.0	5.0	0.0	32	2.5	-15	55	K115	CB7	5 ckt;250V at 10mA out;Ckt delay 100ns.
71	IN5M	11	5.0M	MOH	0.0	5.0	0.0	32	2.5	0	70	K115	CB7	5 ckt;250V at 10mA out;ckt delay 100ns.
72	G501	11	10M	PCB	-6.0	0.0	12	0	3.3	-55	71		CB16	Nixie Driver.
73	GA501	11	10M	PCB	-6.0	0.0	12	0.0	3.3	-55	71		CB16	
74	SH0062	12							20m	15	55			Vout 100V;TpD 15ns;Noise Reg. 250mV.
75	1026-0014	12		PCB	6.5	0.0	13	13		-55	85	K1241		7 ckts;28V at 400mA per ckt out.
76	DR03	12		PCB	1.9%	1.0*	0.0	5.0		0	70	K1256		12 Ckts;Min. noise rejection-500mV.
77	PD141	12		PCB	-6.0	0.0	28	12	6.2	-45	65	K1227	CB1	4 Ckt, 3 Gated inputs,2Amps max current
78	RD04	12		PCB	-12	0.0	12	6.0	2.6	-10	55	K1229	CB33	4 Ckt; Max Switching 0 to -40V. at 1.0A.
79	RD04A	12		PCB	-12	0.0	12	6.0	2.6	-10	55	K1229	CB33	4 Ckt; Max Switching 0 to -60V. at 1.0A.
80	RR110	12		PCB	-6.0	0.0	12	12	2.2	-45	65	K121	CB1	10 Ckt;top.9ms;trel.3ms;Cont Rt-250V;4W
81	RR111	12		PCB	-6.0	0.0	12	12	280m	-45	65	K122	CB1	RR101 w/BCD-Dec. Conv-w/RY
82	RT10	12		PCB	4.0	0.0	0.0	28		5	71		CB37a	12 Drivers/Ckt.
83	RX10	12		PCB	8.0	0.0	25	25	5.7	-55	100	K1220	CB34	6 ckts;Drive 30 Volt Relay Loads.
84	RX11	12		PCB	8.0	0.0	25	25	8.0	-55	100	K1225	CB34	3 ckts;Drive 90 Volt Relay Loads.
85	SD02	12		PCB	-11	0.0	12	6.0	3.1	-10	55	K1228	CB33	2 Ckt; -10V in Load on;0V in Load off.
86	525	12		3DM			25	25		-25	75			Trip Voltage adj. from -20V to 20V.
87	PM8573	12		3DM	6.0	0.0	18	6					ZB37	Fmax-25pps
88	PM9433	12		3DM		-	18	6					ZB37	Output-300mA at 28V
89	RD11-2	12		3DM	-12	0.0	28	12	75m	-35	65	K1237	M15	1 ckt;I out 200mA max;E out -28V max.
90	RD11-3	12		3DM	-12	0.0	28	12	150m	-35	65	K1246	M15	1 ckt;I out 3.0A max;Ext. Power Trans.
91	RD12-1	12		3DM	-12	0.0	28	12	60m	-35	65	K127	M15	2 ckts;I out 80mA max;E out -28V max.
92	RD22-1	12		3DM	12	0.0	12	28	60m	-35	125	K127a	M16	2 ckts;I out 80mA max;E out 28V max.
93	RRFF4A2BM	12		3DM	24	24	29	29	1.2	0	50	K1217	M44	Reed Relay.
94	RRMFF4A2BM	12		3DM	24	24	29	29	1.2	0	50	K1218	M44	Reed Relay.
95	11G3363	12	10	PCB	8.2	0.0	0.0	28			85	K1250	CB49	2 Ckt;2.0A at 28V max each.
96	11G3365	12	10	PCB	8.2	0.0	0.0	28			85	K1249	CB49	2 Ckt;2.0A at 28V max each.
97	11G3328	12	100	PCB	8.2	0.0	0.0	28			85	K1251	CB49	10 Ckt;-150mA at 28V max each.
98	1807	12	500	PCB	-3.0	0.0	15	10	1.4	-20	55	K1222	CB30	4 ckts;DPST Relay;3 Term Nand in Control.
99	1039-0007	12	1.0k		13	0.0	13	13		-55	85	K1241	M26c	1 ckt;Fan Out 75.
100	SPD1	12	1.0k					28				K126	CB10	4 Ckt; max Ic 1.5A.
101	1803	12	1.0k	PCB	-3.0	0.0	15	10	1.9	-20	55	K1223	CB30	4 ckts;Reed Relay and Filter included.
102	CT120-4	12	1.0k	PCB	-11	-3.0	12	12	2.8	-54	65		CB16	4 ckts;Vout-48V.
103	CT121-4	12	1.0k	PCB	-11	-3.0	12	12	2.8	-54	71		CB16	4 ckts;Vout-90V.
104	CT130-3	12	1.0k	PCB	-11	-3.0	12	12	2.4	-54	65		CB16	3 ckts;Vout-90V;I out-1.0A max.
105	CT139-4	12	1.0k	PCB	-3.0	-11	12	12	3.6	-54	65		CB16	4 ckts;Vout -30V.
106	G502	12	1.0k	PCB	-6.0	0.0	12	6.0	774m	-55	71		CB16	4 Relay Drivers.
107	G504	12	1.0k	PCB	-6.0	0.0	12	6.0	1.9	-55	71		CB16	1 Relay Driver.
108	GA502	12	1.0k	PCB	-6.0	0.0	12	6.0	774m	-55	71		CB16	
109	GA504	12	1.0k	PCB	-6.0	0.0	12	6.0	1.9	-55	71		CB16	
110	IRD0242	12	1.0k	PCB	3.5%	.50*	0.0	5.0	60m	0	75	K1255	CB51	8 Ckts. supply up to 250mA to 35V source.

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) MAX. OPERATING FREQ. (3) PROCESS (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL		POWER SUPPLY SPAN		MAX. TOTAL PKG. DISS. (W)	TEMP.		DRAWINGS		GENERAL DESCRIPTION
					'1' (V)	'0' (V)	NEG. (V)	POS. (V)		LOW °C	HI °C	LOGIC DWG. No	OUTLINE DWG. No Δ=MO	
1	PD1	12	1.0k	PCB	-10	0.0	12	6.0		-20	55	K126	CB10	4 Ckt; VCC-28V max; Ic-1.5A.
2	PD2	12	1.0k	PCB	-10	0.0	12	6.0		-20	55	K126	CB10	4 Ckt;VCC 48V max;Ic-1.5A.
3	RD5307	12	1.0k	PCB	2.6%	.50*	0.0	5.0	900m	0	70		CB56	10 Relay Drivers;35V;250mA.
4	T120	12	1.0k	3DM	-11	-3.0	12	12	700m	-54	65	K128	M17	Iout 500mA max;Relay Supply 48V.
5	T121	12	1.0k	3DM	-11	-3.0	12	12	700m	-54	71	K128	M17	Iout 500mA max;Relay Supply 90V.
6	T128	12	1.0k	3DM	-11	-3.0	12	12	240m	-54	71	K128	M17	Iout 500mA max;Relay Supply 30V.
7	T130	12	1.0k	3DM	-11	-3.0	12	12	810m	-54	65	K1232	M17	Iout 1.0A max;Relay Supply 30V.
8	T139	12	1.0k	3DM	-3.0	-11	12	12	900m	-54	65	K1211	M17	Iout 400mA max;Relay Supply 30V max.
9	T141	12	1.0k	3DM	-3.0	-11	12	12	900m	-54	65	K1211	M17	Iout 400mA max;Relay Supply 45V max.
10	GPA1	12	2.0k	PCB	-10	0.0	12	6.0	1.6	0	55	K1238	CB15	Out put: -48V max,350mA max.
11	GPA2	12	5.0k	PCB	-10	0.0	0.0	6.0	23m	0	55	K1239	CB15	12 ckts;Output:28V max,150mA max.
12	ISD0240	12	10k	PCB	3.5%	.50*	0.0	5.0	60m	0	75	K1255a	CB51	3 Ckt;Each can Supply upto 1.0A:35V Source
13	PD31	12	10k	PCB	3.0	0.0	0.0	4.0		0	70		CB10a	Power Driver;Low Speed;High Current.
14	14A	12	10k%	3DM	0.0	12.5	6.0	24	82m	-10	70	K1230a	ZB38	3 Ckt; Delay Depends on Load.
15	14B	12	10k%	3DM	0.0	12.5	6	24	15m	-10	70	K1230	ZB38	2 Ckt; Fan in-4;Delay depends on Load.
16	14C	12	10k%	3DM	0.0	12.5	6	24	2.0	-10	70	K1231	ZB38	1 Ckt; Fan in-3;Ac Load to 1.0A at 250V.
17	Q401	12	13k	3DM	0.0	-12	12	12	490m	-20	65	K1236	M59	Iout 250mA max at 50 °C;1 ckt.
18	Q403	12	13k	3DM	0.0	-12	12	12	180m	-20	65	K1257	M59b	Relay and Indicator Driver;Non-Inverting.
19	CT134-4	12	50k	PCB	-11	-3.0	12	12	1.6	-55	71		CB16	8 ckts;Vout - 35V.
20	CT135-4	12	50k	PCB	-3.0	-11	12	12	800m	-55	71		CB16	8 ckts;Vout - 35V.
21	CT170-4	12	50k	PCB	-11	-3.0	12	12	1.7	-55	71		CB16	8 ckts.
22	CT171-4	12	50k	PCB	-3.0	-11	12	12	2.3	-55	71		CB16	8 ckts.
23	RD2Z	12	50k	PCB	0.0	-6.0	15	6.0	651m	0	50		CB14	8 Ckts/BD;Vout 52V;Iout 120mA max.
24	T134	12	50k	3DM	-11	-3.0	12	12	405m	-55	71	K129	M17	Iout 100mA max;Relay Supply 35V.
25	T135	12	50k	3DM	-3.0	-11	12	12	200m	-55	71	K1210	M17	Iout 100mA max;Relay Supply 35V.
26	T170	12	50k	3DM	-11	-3.0	12	12	430m	-54	65	K1210	M17	Iout 100mA max;Relay Supply 35V max.
27	T171	12	50k	3DM	-3.0	-11	12	12	575m	-54	65	K129	M17	Iout 100mA max;Relay Supply 35V max.
28	2MRD	12	75k	PCB	-10	0.0	16	12	1.2	0	50	K1212	CB19	2 Mercury Relays and Drivers.
29	2RRD	12	75k	PCB	-10	0.0	16	12	2.8	0	50	K1212	CB19	2 Reed Relays and Drivers.
30	RD1413N	12	200k	TFH	5.0	2.0	0.0	30	200m	-55	125	K1240		High Voltage Relay Driver.
31	RD1513N	12	200k	TFH	5.0	2.0	0.0	30	200m	-55	125	K1240		High Voltage Relay Driver.
32	470	12	300k	PCB	-6.8	0.0	12	12	1.5	0	55		CB24	5 Relay Drivers.
33	471	12	300k	PCB	-6.8	0.0	12	12	140	0	55		CB24	5 Section Gated Relay Driver.
34	473	12	300k	PCB	-6.8	0.0	12	12	4.4	0	55		CB24	5 Section Gated Solenoid Driver.
35	1804	12	500k	PCB	-15	0.0	15	10	295m	-20	55	K1221	CB30a	4ckts;Generates±2.5V;25us pulse;Relay Eng.
36	4681	12	500k	PCB	-3.0	0.0	15	10	2.2	-20	55	K1224	CB30	3ckts;Out 500mA;Capable of-20V Esvp.
37	4682	12	500k	PCB	-3.0	0.0	0.0	10	384m	-20	55	K1224	CB30	3ckts;Out 100mA;Capable of 28V Esvp max.
38	SD30	12	500k	PCB	-6.0	0.0	18	12	3.6	-20	55	K1248	CB13a	4 Solenoid Driver Ckts.
39	MC70	12	1.0M	PCB	-6.2	0.0	18	18	5.4	0	55		CB25	6 Gated relay Driver.
40	MC78	12	1.0M	PCB	-6.2	0.0	18	18	4.3	0	55		CB25	6 Drivers.
41	MS76	12	1.0M	PCB	6.2	0.0	18	18	5.4	-30	100		CB25	6 Gated Relay Driver.
42	MS78	12	1.0M	PCB	-6.2	0.0	18	18	4.3	-30	100		CB25	6 Drivers.
43	RD2M	12	1.0M	3DM	0.0	-6.0	15	6.0	243m	0	50			3Ckt/Mod; Prop delay .20ns;tr/tf 2.0us.
44	EM3015	12	2.0M	3DM	0.0	6.0	-6	12		-55	125		M62a	Relay/Light Driver
45	IR5H	12	5.0M	MOH	0.0	5.0	0	32	3.2	0	100		CB7	5Ckt. 32V at 100mA out; Ckt. delay 500ns.
46	IR5L	12	5.0M	MOH	0.0	5.0	0	32	3.2	15	55		CB7	5Ckt. 32V at 100mA out; Ckt. delay 500ns.
47	IR5M	12	5.0M	MOH	0.0	5.0	0	32	3.2	0	70		CB7	5Ckt. 32V at 100mA out; Ckt. delay 500ns.
48	SD330	12	5.0M	MOH	6.3*	1.1*	0.0	6.3	280m	0	55	K123	CB13	Will Switch 1A/28V/500Hz max.
49	RT14	12	10M	PCB	4.0	0.0	0.0	8.0	2.4	5	71	K1258	CB37a	
50	GRR1	12	100M	PCB	-10	6.0	12	6.0	1.4	0	55	K125	CB15	4 Reed Relay and Drivers.
51	GRR2	12	100M	PCB	-10	0.0	12	6.0	1.0	0	55	K125	CB15	4 Reed Relay and Drivers.
52	4519	13	100	PCB	0.0	-3.0	15	10	30	-20	55	K133	CB30	1 ckt;Magnetic Drum Head Selector.
53	8020	13	1.0M	PCB	-4.4	0.0	20	20	1.0	0	55	K131	CB2	16 ckt;0.0Vin-20Vout;-4.4Vin-0.0Vout.
54	8025	13	1.0M	PCB	-4.4	0.0	20	20	3.2	0	55	K132	CB2	8 ckt;0.0Vin-20Vout;-4.4Vin-0.0Vout.
55	1990	14	200k		-3.0	0.0	65	65	415m	-20	65	K142	CB30	4ckts;Read Write Switch;SCR Switch0to1.0
56	8090	14	1.0M	PCB	-4.4	0.0	30	20	2.8	0	55	K141	CB2	1 ckt;Read Mode Switch.
57	1572	15					15	10	1.0	-20	55	K1545	CB30	Comparator.
58	4550J	15			2.0%	.80*	15	15	105m	0	70	K15432	TO116	Quad Current SW;Non Linearity .5% max.
59	4550K	15			2.0%	.80*	15	15	105m	0	70	K15432	TO116	Quad Current SW;Non Linearity .05% max.
60	4550L	15			2.0%	.80*	15	15	105m	0	70	K15432	TO116	Quad Current SW;Non Linearity .005% max.
61	4550R	15			2.0%	.80*	15	15	105m	-55	125	K15432	TO116	Quad Current SW;Non Linearity .5% max.
62	4550S	15			2.0%	.80*	15	15	105m	-55	125	K15432	TO116	Quad Current SW;Non Linearity .05% max.
63	4550T	15			2.0%	.80*	15	15	105m	-55	125	K15432	TO116	Quad Current SW;Non Linearity .005% max.
64	ATF451	15										K15332	M208	D to A Ladder Switch.
65	ATF452	15										K15332	M208	D to A Ladder Switch.
66	BSD12	15			2.0	.80							CB37d	Buffer storage driver.
67	E16501	15					12	12				K154	TO77	High level switching;scanning, chopping.
68	MDA8FET	15			2.4%	.80*	15	15	1.8	-55	100	K15335	M217	Digital to Current Conv; 8 bits.
69	MDA10FET	15			2.4%	.80*	15	15	1.8	-55	100	K15335	M217	Digital to Current Conv; 10 bits.
70	MOSES8	15					15	15		0	70		CB37d	Multiplexer.
71	MPX10W	15					16	16					M180	Multiplexer.
72	SHA-I	15			2.5	.80	15	15		0	70		CB37d	Sample and hold amp.
73	SHA-II	15			2.5	.80	15	15		0	70		CB37d	Sample and hold amp.
74	UD4001	15					30	30		-55	125	K15200	TO91	D to A Ladder Switch.
75	UD4036	15					30	30		-55	125	K15200a	TO87	D to A Ladder Switch.
76	LMD70	15		DCM	35*	30*	0.0	35	350m	-55	100	K15365	M243	Pulser Driver;Surge current 7.0A.
77	5204	15		MOA			15	15	150m%				M⍁	Sample and Hold.
78	5138A	15		MOH			15	15	600m%				M⍁	Peak Sense and Hold.
79	5139A	15		MOH			15	15	600m%				M⍁	Peak Sense and Hold.
80	5146A	15		MOH			15	15	600m%				M⍁	Peak Sense and Hold.
81	5147A	15		MOH			15	15	600m%				M⍁	Peak Sense and Hold.
82	5195	15		MOH			15	15	750m%				M⍁	Sample and Hold.
83	5221A	15		MOH			15	15	900m%				M⍁	Sample and Hold.
84	D132L	15		MOH			20	10	750m	-55	125	K15193	TO86	4 Channel FET Switch and Amp. Driver.
85	DG116L	15		MOH	1.0	0.0	20	10	750m	-55	125	K15138a	TO86	4 Channel driver with Fet switches.
86	DG118L	15		MOH	1.0	0.0	20	10	750m	-55	125	K15137a	TO86	4 Channel driver with Fet switches.
87	DG120L	15		MOH	1.0	0.0	20	10	750m	-55	125	K15141	TO86	3 Channel driver W/Fet switches.
88	DG121L	15		MOH	1.0	0.0	20	10	750m	-55	125	K15142	TO86	3 Channel driver W/Fet switches.
89	DG122L	15		MOH	1.0	0.0	20	10	750m	-55	125	K15143	TO86	2 Channel driver W/Fet switches.
90	DG123L	15		MOH	1.0	0.0	20	10	750m	-55	125	K15138b	TO86	5 Channel driver with Fet switches.
91	DG125L	15		MOH	1.0	0.0	20	10	750m	-55	125	K15140	TO86	5 Channel driver with Fet switches.
92	DG226L	15		MOH	1.3%	2.1*	0	12	750m	-55	85	K15203	TO86	Dual DPST FET Switch Driver.
93	DG229L	15		MOH	1.3%	2.1*	0	12	750m	-55	85	K15203	TO86	Dual DPST FET Switch Driver.
94	DG233L	15		MOH	1.3%	2.1*	0	12	750m	-55	85	K178	TO86	Dual SPST FET Switch Driver.
95	DG234L	15		MOH	1.3%	2.1*	0	12	750m	-55	85	K178	TO86	Dual SPST FET Switch Driver.
96	DG326L	15		MOH	1.3%	2.1*	0	12	750m	-20	85	K15203	TO86	Dual DPST FET Switch Driver.
97	DG329L	15		MOH	1.3%	2.1*	0	12	750m	-20	85	K15203	TO86	Dual DPST FET Switch Driver.
98	DG333L	15		MOH	1.3%	2.1*	0	12	750m	-20	85	K178	TO86	Dual SPST FET Switch Driver.
99	DG334L	15		MOH	1.3%	2.1*	0	12	750m	-20	85	K178	TO86	Dual SPST FET Switch Driver.
100	MC1118	15		MOH						-55	125	K157	CN9	Diode Matrix;Vr 40V;trr 90ns.
101	ZD410E1	15		MOH	3.0%	.40*	15	15	150m%	-25	85	K15378	M260	4 channel Multiplexer;Vo ±10V.
102	ZD450E1	15		MOH			15	15	375m%	0	70	K15379	M260	Track-Hold Amp;Vo ±10V;Track Mode 5.5V max
103	4JPA345	15		MON	3.0	0.0	3.0	6.0		-55	125	K1524		2 ckt;Lo-level Sw. in-Pulse tr,tf 40ns.
104	4JPA358	15		MON	3.0	0.0	3.0	6.0		-55	125	K1524		2 ckt;Lo-level Sw. in-Pulse tr,tf 40ns.
105	4JPA380	15		MON			0.0	5.0				K1520	TO96	Dual D-A Sw;Inputs above GND;Zout 20.
106	4JPA912	15		MON						-55	125	K1585	TO73	Analog Switch.
107	4JPA913	15		MON						-55	125	K1585a	TO73	Analog Switch.
108	117AE	15		MON	.80	.25	0	3	60m	-55	125	K156		Half Shift Register;Prop.Delay-32ns
109	117AH	15		MON	.80	.25	0	3	60m	-55	125	K156		Half Shift Register;Prop. Delay-32ns
110	117BE	15		MON	.80	.25	0	3	60m	-55	125	K156		Half Shift Register;Prop.Delay-32ns

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) MAX. OPERATING FREQ.
(3) PROCESS (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL		POWER SUPPLY SPAN		MAX. TOTAL PKG. DISS. (W)	TEMP.		DRAWINGS		GENERAL DESCRIPTION
					'1' (V)	'0' (V)	NEG. (V)	POS. (V)		LOW °C	HI °C	LOGIC DWG. No	OUTLINE DWG. No Δ=MO	
1	117BH	15		MON	.80	.25	0	3	60m	-55	125	K156		Half Shift Register;Prop. Delay-32ns
2	117CE	15		MON	.80	.25	0	3	60m	0	70	K156	CN10	Half Shift Register;Prop.Delay-32ns
3	142AE	15		MON	.80	.25	0	3		-55	125			Counter Adapter; Pd-35nsec.
4	142AH	15		MON	.80	.25	0	3	66m	-55	125	K155		Counter Adapter;Prop. Delay-35ns
5	142BE	15		MON	.80	.25	0	3	66m	-55	125	K155		Counter Adapter;Prop. Delay-35ns
6	142BH	15		MON	.80	.25	0	3	66m	-55	125	K155		Counter Adapter;Prop. Delay-35ns
7	142CE	15		MON	.80	.25	0	3	66m	0	70	K155	CN10	Counter Adapter;Prop. Delay-35ns
8	3207	15		MON	2.0%	.85*	0.0	5.0	2.0	0	75	K15382	M207a	TTL to MOS Level Shifter and Driver.
9	4013-1-25	15		MON			15	15	900m%	-25	85		M303	Sample-Hold Modules.
10#	9005-1	15		MON	2.4%	.40*Δ	0.0	5.0		-55	125			Dual 2 and 2 Expandable and/or Invert Gate
11#	9005-9	15		MON	2.4%	.45*Δ	0.0	5.0		0	75			Dual 2 and 2 Expandable and/or Invert Gate
12#	9006-1	15		MON	2.4%	.4*Δ	0	5		-55	125			Dual 4 Input Expander Element.
13#	9006-9	15		MON	2.4%	.45*Δ	0	5		0	75			Dual 4 Input Expander Element.
14#	9008-1	15		MON	2.4%	.40*Δ	0.0	5.0		-55	125			3 and 2 and 2 and 2 and/or Invert Gate.
15#	9008-9	15		MON	2.4%	.45*Δ	0.0	5.0		0	75			3 and 2 and 2 and 2 and/or Invert Gate.
16#	9314-1-7B	15		MON	1.7%	.90*	0.0	5.0	250m	-55	125		M148a	Quad latch; TTL. D Type or R-S Type input.
17#	9314-9-7B	15		MON	1.8%	.85*	0.0	5.0	300m	0	75		M148a	Quad latch; TTL. D Type or R-S Type inputs
18	C11004	15		MON	.80	.25	0.0	3.0	66m	0	70	K155	CN10	Counter Adapter;TpD 35ns.
19	C11008	15		MON	.80	.25	0.0	3.0	66m	-55	125	K155	CN10	Counter Adapter;TpD 35ns.
20	C41001	15		MON	.80	.25	0.0	3.0	66m	-55	125	K155	CN10	Counter Adapter;TpD 35ns.
21	C41008	15		MON	.80	.25	0.0	3.0	66m	-55	125	K155	FP26	Counter Adapter;TpD 35ns.
22	D124F	15		MON	15	-15	0.0	30	375m	-55	125	K15119	TO84	6 Channel FET Switch Driver.
23	DA436	15		MON			36	36	100m	-55	85		M144	Phase control;n-.35 max;Vs-11V;Ic-36mA.
24	G125F	15		MON					500m	-65	150		TO84	4 Channel Junction FET Switch.
25	G126F	15		MON					500m	-65	150		TO84	4 Channel Junction FET Switch.
26	G127F	15		MON					500m	-65	150		TO84	4 Channel Junction FET Switch.
27	G128F	15		MON					500m	-65	150		TO84	4 Channel Junction FET Switch.
28	G129F	15		MON					500m	-65	150		TO84	4 Channel Junction FET Switch.
29	G130F	15		MON					500m	-65	150		TO84	4 Channel Junction FET Switch.
30	G131F	15		MON					500m	-65	150		TO84	4 Channel Junction FET Switch.
31	G132F	15		MON					500m	-65	150		TO84	4 Channel Junction FET Switch.
32#	MA24	15		MON	7.0%	0.0*	0.0	10		-10	55	K15248	FP21d	8 Way Multiplexer.
33	MC1021L	15	•	MON	.68*	1.5*†	10	0		0	75	K15114	TO116	Fan Out-15 min;Full Subtractor;tpd-10ns.
34	MC1028L	15		MON	-.85	-1.5	5.2	0.0	170m†	0	75	K15216	TO116	Dual 4 Channel Data Selector;Fan Out 25.
35	MC1036L	15		MON	-.75%	-1.6*	8	0	250m†	0	75	K15162	TO116	16 Bit Coincident Memory.
36	MC1037L	15		MON	-.75%	-1.6*	8	0	250m†	0	75	K15162	TO116	16 Bit Coincident Memory w/o pulldowns.
37	MC1038L	15		MON	-.75%	-1.6*	8	0	150m†	0	75	K15163	TO116	8 Channel Data Selector.
38	MC1039L	15		MON	-.85	-1.5	5.2	5.0	200m†	0	75	K15217	M154	MECL to Saturated Logic Quad Translators.
39	MC1246P	15		MON	-.85%	1.5*†	5.2	0.0	205m	-55	125	K15281	M114	Eight Bit Parity Checker and Generator.
40	MEM2001	15		MON								K1593		Multiplex Gate Device;MOS Chan;Enhance
41	MEM5001	15		MON								K1593		Multiplex Gate Device;MOS Chan;Enhance
42	MEM5002	15		MON								K1593		Multiplex Gate Device;MOS Chan;Enhance
43	MEM5003	15		MON								K1593	CN49	Multiplex Gate Device;MOS P-Chan;Enhance
44	MEM5004	15		MON								K1593	CN49	Multiplex Gate Device;MOS P-Chan;Enhance
45	MEM5005	15		MON								K1593		Multiplex Gate Device;MOS Chan;Enhance
46	MEM5006	15		MON								K1593	CN49	Multiplex Gate Device;MOS P-Chan;Enhance
47	MEM5007	15		MON								K1593	CN49	Multiplex Gate Device;MOS P-Chan;Enhance
48	PL4S01	15		MON	2.0*	8.0%	47	0	500m	-55	125	K1586	ZB83	4 Channel Analog Switch
49	PL901#1	15		MON	1.0	.15	0.0	3.0	70m	-55	125	K158	CN13	Counter Adapter.
50	PL901#2	15		MON	1.0	.15	0.0	3.0	70m	-55	125	K158	FP2	Counter Adapter.
51	PL9901	15		MON	1.0	.15	0.0	4.0	70m	-55	125	K158		Counter Adaptor.
52	RD203	15		MON			0.0	5.0		-55	125	K1566	TO84	Power Line Driver.
53	RD203-1	15		MON			0.0	5.0		-55	125	K1566	CN14	Power Line Driver.
54	RL40P	15		MON	3.5	.20†	0	5	20m	-55	125		M105k	Carry Decoder;use W/RL20 † RL30.
55	RL41P	15		MON	3.5	.20†	0	5	20m	-55	125		M105k	Carry Decoder;use W/RL20 † RL30.
56	RL42P	15		MON	3.5	.20†	0	5	20m	0	75		M105k	Carry Decoder;use W/RL20 † RL30.
57	RL43P	15		MON	3.5	.20†	0	5	20m	0	75		M105k	Carry Decoder;use W/RL20 † RL30.
58	RL60P	15		MON	3.5	.20†	0	5	80m	-55	125		M105k	4 Bit Storage Register;ton-16ns;toff-11ns.
59	RL61P	15		MON	3.5	.20†	0	5	80m	-55	125		M105k	4 Bit Storage Register;ton-16ns;toff-11ns.
60	RL62P	15		MON	3.5	.20†	0	5	80m	0	75		M105k	4 Bit Storage Register;ton-16ns;toff-11ns.
61	RL63P	15		MON	3.5	.20†	0	5	80m	0	75		M105k	4 Bit Storage Register;ton-16ns;toff-11ns.
62	RL70P	15		MON	3.5	.20†	0	5	120m	-55	125		M105k	4 Bit Storage Register;ton-16ns;toff-11ns.
63	RL71P	15		MON	3.5	.20†	0	5	120m	-55	125		M105k	4 Bit Storage Register;ton-16ns;toff-11ns.
64	RL72P	15		MON	3.5	.20†	0	5	120m	0	75		M105k	4 Bit Storage Register;ton-16ns;toff-11ns.
65	RL73P	15		MON	3.5	.20†	0	5	120m	0	75		M105k	4 Bit Storage Register;ton-16ns;toff-11ns.
66	RL3002D	15		MON	2.9%	.45*†	0.0	5.25	330m	0	75		M105m	Ten Bit Parity Generator/Checker.
67	RL3002K	15		MON	2.9%	.45*†	0.0	5.25	330m	0	75		FP21b	Ten Bit Parity Generator/Checker.
68	RM14	15		MON					450m	-55	125		TO84	Diode Matrix 8x5;trr 50ns.
69	RM17	15		MON					450m	-55	125		TO84	Diode Matrix 8x5;trr 10ns.
70	RM19	15		MON					450m	-55	125		TO84	Diode Matrix 8x5;trr 25ns.
71	RM50	15		MON						-55	125	K15108	FP42	Diode Matric 15x15;trr-10ns.
72	RM50B	15		MON	1.0	.15	0.0	3.0	70m	-55	125	K15108	FP42	Diode Matrix 15x15;trr 10ns.
73	RM53	15		MON						-55	125	K15108c	FP42	Diode Matric 15x10;trr-10ns.
74	RM53B	15		MON	1.0	.15	0.0	3.0	70m	-55	125	K15108c	FP42	Diode Matrix 15x10;trr 10ns.
75	RM56	15		MON						-55	125	K15108f	FP42	Diode Matric 15x5;trr-10ns.
76	RM56B	15		MON	1.0	.15	0.0	3.0	70m	-55	125	K15108f	FP42	Diode Matrix 15x5;trr 10ns.
77	RM59	15		MON						-55	125	K15108a	FP42	Diode Matric 10x15;trr-10ns.
78	RM59B	15		MON						-55	125	K15108a	FP42	Diode Matrix 10x15;trr 10ns.
79	RM62	15		MON						-55	125	K15108b	FP42	Diode Matric 5x15;trr-10ns.
80	RM62B	15		MON						-55	125	K15108b	FP42	Diode Matrix 5x15;trr 10ns.
81	RM65	15		MON						-55	125	K15108d	FP42	Diode Matric 10x10;trr-10ns.
82	RM65B	15		MON						-55	125	K15108d	FP42	Diode Matrix 10x10;trr 10ns.
83	RM68	15		MON						-55	125	K15108g	FP42	Diode Matric 10x5;trr-10ns.
84	RM68B	15		MON						-55	125	K15108g	FP42	Diode Matrix 10x5;trr 10ns.
85	RM71	15		MON						-55	125	K15108e	FP42	Diode Matric 5x10;trr-10ns.
86	RM71B	15		MON						-55	125	K15108e	FP42	Diode Matrix 5x10;trr 10ns.
87	RM74A	15		MON						-55	125	K15108h	TO84	Diode Matrix 5x5;trr 10ns.
88	RM114	15		MON						-55	125		M75b	Diode Matrix 8x5;trr 50ns.
89	S11001	15		MON	.80	.25	0.0	3.0	60m	-55	125	K156	CN10	Half Shift Register;TpD 32ns.
90	S11004	15		MON	.80	.25	0.0	3.0	60m	0	70	K156	CN10	Half Shift Register;TpD 32ns.
91	S11008	15		MON	.80	.25	0.0	3.0	60m	-55	125	K156	CN10	Half Shift Register;TpD 32ns.
92	S41001	15		MON	.80	.25	0.0	3.0	60m	-55	125	K156	FP26	Half Shift Register;TpD 32ns.
93	S41008	15		MON	.80	.25	0.0	3.0	60m	-55	125	K156	FP26	Half Shift Register;TpD 32ns.
94	SM123-02	15		MON	2.0%	.80*	0	5.2		0	75		TO84	Parity Generator/Checker.
95	SM123-03	15		MON	2.0%	.80*	0	5.2		0	75		TO116	Parity Generator/Checker.
96	SM133-02	15		MON	2.0%	.80*	0	5.2		0	75		TO85	2 Word-4 Bit Comparator.
97	SM133-03	15		MON	2.0%	.80*	0	5.2		0	75		TO116	2 Word-4 Bit Comparator.
98	SN54L85N	15		MON	2.0%	.70*	0.0	5.0	20m†	-55	125	K15323	M117	4Bit Magnitude Comparator;FanOut 30.
99	SN54L98N	15		MON	2.0%	.70*	0.0	5.0	25m†	-55	125	K15321	M117	4 Bit Data Selectors/Storage Registers.
100	SN54L153N	15		MON	2.0%	.80*	0.0	5.0	85m†	-55	125	K15322	M117	Dual 4-Line-to-1-Line Data Sel/Multiplexer
101	SN336A	15		MON			12	12	150m	0	65	K1577	ZB6	1 Ckt; Level Detector
102	SN354A	15		MON			0	28	80m	-65	65	K1576	ZB6	1 Ckt; Demodulator Chopper
103	SN517A	15		MON	2.4	.30	0.0	6.0	30m	-55	125	K1581	TO89	1 ckt;Clock Driver for up to 20 Ser.51FF.
104	SN7481	15		MON	2.4%	.40*	0	5	275m†	0	70		M126	16 Bit Active Element Memory.
105	SN7484	15		MON	2.4%	.40*	0	5	275m†	0	70		M117	16 Bit Active Element Memory.
106	TMC3162	15		MON	3.5	.25	0.0	6.0	250m	0	75			16 Bit Memory element.
107	TMC3163	15		MON	3.5	.25	0.0	6.0	250m	-55	125			16 Bit Memory element.
108	TMC3164	15		MON	3.5	.25	0.0	6.0	250m	0	75			16 Bit Memory element.
109	uL901#1	15		MON	1.3	.25	0.0	12	70m	-55	125	K1558	TO70	Provide Complement out.
110	uL901#2	15		MON	1.3	.25	0.0	12	70m	0	100	K1558	CN34	Provides Complement out.

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) MAX. OPERATING FREQ. (3) PROCESS (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	2 MAX OPER-ATING FREQ. (Hz)	3 PRO-CESS	LOGIC LEVEL		POWER SUPPLY SPAN		MAX. TOTAL PKG. DISS. (W)	TEMP.		DRAWINGS		GENERAL DESCRIPTION
					'1' (V)	'0' (V)	NEG. (V)	POS. (V)		LOW °C	HI °C	LOGIC DWG. No	OUTLINE DWG. No Δ=MO	
1	WM151Q	15		MON	7.5*		0	15	150m	0	125		TO86	Core Driver.
2	WS151Q	15		MON	7.5*		0.0	15	150m	0	125	K1587	FP37	Destruct Readout Bit Driver.
3	WS153Q	15		MON								K1595	FP37	Dual Darlington.
4	3501-4A-6G	15		MOS	9.0%	2.0*	29	0	250mΔ	-55	85		M151	1024-Bit Static Read-Only Memory.
5	3501-9A-6G	15		MOS	9.0%	2.0*	29	0	250mΔ	0	70		M151	1024-Bit Static Read-Only Memory.
6	CD4007	15		MOS	10	0.0†	0	10	1.0u	-55	125	K15198	FP44a	Dual Compl.(COS/MOS)Trans. plus Inverter
7	CD4007D	15		MOS	10	0.0†	0	10	1.0u	-55	125	K15198	M135	Dual Compl.(COS/MOS)Trans. plus Inverter.
8	CD4007E	15		MOS	10	0.0†	0.0	10	10u%	-40	80	K15198	Δ001ab	Dual comp-(COS/MOS)trans;tpD 35ns.
9#	FDH116	15		MOS	-2.0%	-9.0*	28	0.0	150m†	-55	85	K15370	M193	Control Logic Array;tpd 250ns typ.
10#	FDH126	15		MOS	-2.0%	-9.0*	28	0.0	260m†	-55	85	K15373	M193	Carry Array;tpd 250ns typ.
11#	FDH136	15		MOS	-2.0%	-9.0*	28	0.0	230m†	-55	85	K15374	M193	And-Or Gating Array;tpd 180ns typ.
12#	FDH146	15		MOS	-2.0%	-9.0*	28	0.0	35m†	-55	85	K15375	M225	Variable Gate Array;tpd 250ns typ.
13#	FDH156	15		MOS	-2.0%	-9.0*	28	0.0	160m†	-55	85	K15376	M225	Fixed Logic Array;tpd 150ns typ.
14	G116F	15		MOS					375m	-55	125	K15241a	TO86	5 Channel FET SW W/5 pull-up elements
15	G116L	15		MOS					750m	-55	125	K15241a	TO86	5 Channel FET SW W/5 pull-up elements
16	G117F	15		MOS					375m	-55	125	K15241	TO86	6 Channel FET SW W/6 pull-up elements
17	G117L	15		MOS					750m	-55	125	K15241	TO86	6 Channel FET SW W/6 pull-up elements
18	G118F	15		MOS					375m	-55	125	K15242	TO86	6 Channel FET SW Wo/pull-up elements
19	G118L	15		MOS					750m	-55	125	K15242	TO86	6 Channel FET SW Wo/pull-up elements
20	G119F	15		MOS					375m	-55	125	K15243	TO86	6 Channel FET SW W/3 pull-up element pairs
21	G119L	15		MOS					750m	-55	125	K15243	TO86	6 Channel FET SW W/3 pull-up element pairs
22	G123L	15		MOS	20	10	20	10	750m	-55	125	K15245	TO86	MOS FET SW;Rds 250Ω;IG 5.0mA.
23	G124L	15		MOS	20	10	20	10	750m	-55	125	K15245a	TO86	MOS FET SW;Rds 250Ω;IG 5.0mA.
24	G416L	15		MOS					750m	0	70	K15241a	TO86	5 Channel FET SW W/5 pull-up elements
25	G417L	15		MOS					750m	0	70	K15241	TO86	6 Channel FET SW W/6 pull-up elements
26	G418L	15		MOS					750m	0	70	K15242	TO86	6 Channel FET SW Wo/pull-up elements
27	G419L	15		MOS					750m	0	70	K15243	TO86	6 Channel FET SW W/3 pull-up element pairs
28#	GDN116	15		MOS	-24%	-1.0*				-55	85	K15380	TO87	64 Bit Accumulator.
29#	GDN116A	15		MOS	-24%	-1.0*				-55	85	K15380	TO74	64 Bit Accumulator.
30#	GDN126	15		MOS	-26%	-2.0*	-27	0.0		-55	85	H0498a	M105an	128 Bit.
31#	GDN126A	15		MOS	-26%	-2.0*	-27	0.0		-55	85	H0498a	TO74	128 Bit.
32	ITT3708-2D2	15		MOS	3.5%	.20*	18	5.0	200m	-55	85	K15172	M148a	Multiplex SW;Ron 150Ω.
33	ITT3708-2D3	15		MOS	3.5%	.20*	18	5.0	200m	-55	85	K15172	M148a	Multiplex SW;Ron 190Ω.
34#	M5803P	15		MOS			28	0.0	7.5m	0	75	K15252	M153b	Dual 3 Input Gate;Threshold-4.0V typ.
35	MC1170L	15		MOS	-12%	-1.0*†	35	.30		0	75	K15311	M201	64 Bit Random Access Memory.
36	MEM1022	15		MOS	-11%	-1.0*	30	.30		-55	85	K15129	TO87	Parity Detector; Prop. Delay-750nsec.
37	MEM2002	15		MOS								K0242d	TO87	4 ChMx;Vgst-6.0V max;Id(on)-10mA.
38	MEM2003	15		MOS								K0242a	CN54a	4 ChMx;Vgst-6.0V max;Id(on)-10mA.
39	MEM2004	15		MOS								K15151	CN54a	4 ChMx;Vgst-6.0V max;Id(on)-10mA.
40	MEM2005	15		MOS								K0242b	TO87	4 ChMx;Vgst-6.0V max;Id(on)-10mA.
41	MEM2006	15		MOS								K0242c	CN54a	4 ChMx;Vgst-6.0V max;Id(on)-10mA.
42	MEM5132	15		MOS	5.0	0.0	12	5	60m	-55	85			Random Access Memory;Noise Immunity-1.0V.
43	MX01C	15		MOS			30	.30	200m	-55	125		FP34	4 Channel Multiplexer and Inverter
44	PM1024ACF	15		MOS	-9%	-3*	25	0	100m	0	70		FP48	1024 Bit Permanent Memory;Noise Rej-1.0V.
45	PM1024ACP	15		MOS	-9%	-3*	25	0	100m	0	70		M149	1024 Bit Permanent Memory;Noise Rej-1.0V.
46	PM1024AF	15		MOS	-9%	-3*	25	0	100m	-55	125		FP48	1024 Bit Permanent Memory;Noise Rej-1.0V.
47	PM1024AP	15		MOS	-9%	-3*	25	0	100m	-55	125		M149	1024 Bit Permanent Memory;Noise Rej-1.0V.
48	PM1024CF	15		MOS	-9%	-3*	25	0	100m	0	70		FP48	1024 Bit Permanent Memory;Noise Rej-1.0V.
49	PM1024CP	15		MOS	-9%	-3*	25	0	100m	0	70		M149	1024 Bit Permanent Memory;Noise Rej-1.0V.
50	PM1024F	15		MOS	-9%	-3*	25	0	100m	-55	125		FP48	1024 Bit Permanent Memory;Noise Rej-1.0V.
51	PM1024P	15		MOS	-9%	-3*	25	0	100m	-55	125		M149	1024 Bit Permanent Memory;Noise Rej-1.0V.
52	PMS256X1LVC	15		MOS	3.0%	.50*	10	5.0	700m	0	70			256 Bit R/W Ram-Low Threshold.
53	SC1170	15		MOS			20	0.0		0	70	K1559	CN40	3 Input Gate.
54	UC6577UN	15		MOS	3.0%	.60*	15	5.0	450m†	-55	125	K15355	M151	Byte Access time 400ns max.
55	UC7577UN	15		MOS	3.0%	.60*	15	5.0	450m†	0	70	K15355	M151	Byte Access time 400ns max.
56#	31642-01-2-268	15		PCB	-12	0.0	12	12		0	50	K1561		Teletypewriter control board.
57	B660	15		PCB	-6.0	0.0	12	6		-15	60	K1525	CB22	Time constant fo units;3Ckts/BD.
58	B678	15		PCB	-6.0	0.0	12	6.0		-15	60	K1569	CB22	Schmitt Trigger driven by photo-diode.
59	CT129-4	15		PCB	-3.0	-11	12	12	960m	-54	71		CB16	4 Reset Gen.
60	GVC1	15		PCB	-10	0.0	12	6.0	900m	0	55	K1582	CB15	Voltage Comparator;Analog Input.
61	IRC9003	15		PCB			0	5		0	75		CB51	8 SPDT Relays
62	IRS9002	15		PCB			12	0		0	50		CB51	Stable-10V Reference Supply.
63	ISH9007	15		PCB			15	15	750m	0	75		CB51	Sample and Hold for A-D Conversion.
64	401	15		3DM			15	15					M⧄	Volt to Freq Converter;Square Wave Out.
65	402Δ	15		3DM			15	15					M⧄	Volt to Freq Converter;Square Wave Out.
66	403Δ	15		3DM			15	15					M⧄	Volt to Freq Converter;Square Wave Out.
67	801	15		3DM			15	15		0	70		M⧄	Peak Detectors;Tracking Rate 150mV/us.
68	802	15		3DM			15	15		0	70		M⧄	Peak Detectors;Tracking Rate 500mV/us.
69	922	15		3DM			25	25						Sine to Pulse Converter.
70	923	15		3DM			25	25						Sine to Pulse Converter.
71	9034-1A-6B	15		3DM	.90*	2.0%	.50	8.0		-55	125	K15180	M153	256 Bit Read only Mem;Fig.1-6 code.
72	9034-1B-6B	15		3DM	.90*	2.0%	.50	8.0		55	125	K15180	M153	256-Bit Read Only Mem;Fig 7-0 code.
73	9034-9A-6B	15		3DM	.90*	2.0%	.50	8.0		0	75	K15180	M153	256 Bit Read only Mem;Fig.1-6 code.
74	9034-9B-6B	15		3DM	.90*	2.0%	.50	8.0		0	75	K15180	M153	256-Bit Read only Mem;Fig 7-0 code.
75	EM2520	15		3DM	0.0	-6.0	12	0	48m	-55	71	K1583	M62b	Reset Gate
76	ERSC1	15		3DM			15	15		-55	85		M⧄	Resolver/Synchro converter.
77	ERSC2	15		3DM			15	15		25	70		M⧄	Resolver/Synchro converter.
78	ERSC3	15		3DM			15	15		0	50		M⧄	Resolver/Synchro converter.
79	MDA8F	15		3DM	2.4%	.80*	15	15	1.8	0	70	K15335	M217	Digital to Current Conv; 8 bits.
80	MDA10F	15		3DM	2.4%	.80*	15	15	1.8	0	70	K15335	M217	Digital to Current Conv; 10 bits.
81	MSSH	15		3DM	2.0%	.80*	15	15		-55	85		M⧄	Differential input sample and hold.
82	PL1N	15		3DM					300mΔ				M24	Dual Logarithmic Transconductor.
83	PL1P	15		3DM					300mΔ				M24	Dual Logarithmic Transconductors.
84	PM8593	15		3DM									ZB37	Shift Register Gate; DDL
85	PPL1N	15		3DM					300mΔ				M25	Dual Logarithmic Transconductors.
86	PPL1P	15		3DM					300mΔ				M25	Dual Logarithmic Transconductors.
87	SSCX1	15		3DM			15	15		-55	85		M⧄	14 Bit SS Control Differential Transmitter
88	SSCX2	15		3DM			15	15		-25	70		M⧄	14 Bit SS Control Differential Transmitter
89	SSCX3	15		3DM			15	15		0	50		M⧄	14 Bit SS Control Differential Transmitter
90	TM12-1	15		3DM	-12	0.0	12	12		-35	65	K1574	M15	2 ckts;Data Transfer Module
91	TM22-1	15		3DM	12	0.0	12	12		-35	125	K1574a	M16	2 ckts;Data Transfer Module
92	5641	15	30	MOH			15	15	210m%	-55	85		M⧄	Peak Sense and Hold.
93	5204A	15	1.0k	MOH			15	15	90m%	-55	85		M⧄	Sample and Hold.
94	TMS102	15	1.0k	MOH			15	15		-10	100		FP34	Amplifier Demodulator.
95	567	15	1.0k	3DM			15	25		0	65			Sq.Root Analog Function Module.
96	570	15	1.0k	3DM			12	12		-20	50			Linear Voltage to Freq. Transducer.
97	571	15	1.0k	3DM			12	12		-20	50			Linear Freq. to Voltage Transducer.
98	PM14523	15	1.0k	3DM	3.0	0.0	15	5.0					ZB37	Dual Solenoid Amplifier.
99	701	15	5.0k	3DM			15	15					M⧄	Sample-inf holds;Max sample rate 5.0kHz.
100	2PAM	15	10k	PCB	-10	0.0	12	12	650m	0	50	K1519	CB19	2 photo Ampliers.
101	FSS101	15	20k	MOH			30	30		-40	125			AC input-DC output control amp;A-100db.
102	702	15	25k	3DM			15	15					M⧄	Sample-inf holds;Max sample rate 25kHz.
103	5647	15	30k	MOH			15	15	750m%	-55	85		M⧄	Peak Sense and Hold.
104	3DSAL	15	50k	PCB	-10	0.0	12	12	350m	0	50	K1516	CB19	3 Digit Scanner;Collector Resistor omitted
105	3DSL	15	50k	PCB	-10	0.0	12	12	350m	0	50	K1516	CB19	3 Digit Scanner.
106	GRG1-.2	15	50k	PCB	-10	0.0	12	0.0	36m	0	55	K1580	CB15	4 ckts;Reset Gate.
107	NS8003	15	50k	TFH			0.0	12	2.0	-55	125	K1538	CN28	Trans;Isolated;Integrated Chopper.
108	SHAIII	15	50k	3DM	2.0%	.80*	15	15	450m	0	70	K15336	M218	Sample-Hold Amp;Freq,50kHz;Res,100MΩ.
109	SHAIV	15	50k	3DM	2.0%	.80*	15	15	540m	0	70	K15336	M218	Sample-Hold Amp;Freq 50kHz;Res 100MΩ.
110	PL4S16	15	100k	MOS	-9.0%	-3.0*	28	0.0	150m	-55	125		FP58	16 Channel Multiplexer;Ron-1.0kΩ max.

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) MAX. OPERATING FREQ. (3) PROCESS (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL		POWER SUPPLY SPAN		MAX. TOTAL PKG. DISS. (W)	TEMP.		DRAWINGS		GENERAL DESCRIPTION
					'1' (V)	'0' (V)	NEG. (V)	POS. (V)		LOW °C	HI °C	LOGIC DWG. No	OUTLINE DWG. No Δ=MO	
1	PL4S16C	15	100kΔ	MOS	-9.0%	-3.0*	28	0.0	150m	0	70		FP58	16 Channel Multiplexer; Ron 1.0kΩ max.
2	479	15	100k	PCB	-6.8	0.0	12	12	2.1	0	55	K1532	CB24	Reset Generators.
3#	31642-02-2-268	15	100k	PCB	-12	0.0	12	12	0.0	0	50	K1561		Teletypewriter control board.
4	DC1CDOU1	15	100k	PCB	-6.0	0.0	18	18		-55	55			5 DC1VC6G;BCD to Dec.;W/Num.Neon Ind.
5	DC1MFT2	15	100k	PCM	-6.0	0.0	18	18		-55	55			Spl. AND Gating for CLI DC01 FF4.
6	547	15	100k	3DM			25	25		0	50			Log Freq. to DC Voltage Converter.
7	PM7893	15	100k	3DM			18	6.0					ZB37	Reset amplifier.
8	PM7963	15	100k	3DM			5.0	5.0					ZB37	Photocell amplifier.
9	PM10313	15	100k	3DM			5.0	5.0					ZB37	Photocell detector amplifier.
10	RG13-1	15	100k	3DM						-35	65	K1572	M15	3 ckt;Reset Gen;RC type.
11	RM11-1	15	100k	3DM	-12	0.0	12	12		-35	65	K1573	M15	1 ckt;Reset Amp;Pulse and DC Control.
12	4514	15	160k	PCB	0.0	-3.0	15	10	2.6	-20	55	K1548	CB30	2 ckts;Magnetic Head NRZ Writers.
13	GDR1-.2	15	200k	PCB	-10	0.0	12	6.0	540m	0	55	K1575	CB15	3 ckts;Data Receiver.
14	GRG1-1	15	200k	PCB	-10	0.0	12	0.0	36m	0	55	K1580	CB15	4 ckts;Reset Gate.
15	CT109-4	15	250k	PCB	-.30	-5.0	12	0.0	336m	-45	65		CB16	4 Reset Gen.
16	CT174-4	15	250k	PCB	-3.0	-11	12	12	1.9	-45	65		CB16	4 Comparators.
17	G517	15	250k	PCB	-12	0.0	12	12	1.9	-55	71		CB16	Voltage Comparator.
18	GA517	15	250k	PCB	-12	0.0	12	12	1.9	-54	71			Voltage Comparator.
19	TD32	15	250k	PCB	-6.0	0.0	18	12	1.2	-20	55		CB13a	Delayed Pulse Generator.
20	EM2521	15	250k	3DM	0.0	-6.0	6.0	6.0	230m	-55	71	K1584	M62a	Pulse Distributor.
21	T129	15	250k	3DM	-3.0	-11	12	12	240m	-54	71	K1514	M17	Reset Generator.
22	T174	15	250k	3DM	-3.0	-11	12	12	468m	-45	65		M17	Voltage Comparator.
23	430	15	300k	PCB	-6.8	0.0	12	12	2.3	0	55	K1523	CB24	Two by Two Switches.
24	438	15	300k	PCB	-6.8	0.0	12	12	900m	0	55		CB24	Electronic Switch.
25	444Δ	15	300k	PCB	-6.8	0.0	12	12	2.1	0	55		CB24	Hi-Lo Comparator.
26	GC11	15	300k	PCB	8.0	0.0		25	2.4	-55	100	K1560	CB34	4x8 Select Matrix,31;3 Element Gate.
27	4688	15	500k	PCB	-3.0	0.0	150	50	2.4	-20	55	K1553	CB30	1 ckt;Scope Intensifier.
28	A22260	15	1.0M		-66		12	12		0	55		CB46	Dig. Cir. Module for Mag.Res.Del.Lines.
29	A22280	15	1.0M				12	12		0	55		CB47	S.W.Carr.Ckt. for Mag.Res.Del.Lines.
30	A22426	15	1.0M		-66		12	12		0	55		CB48	Random Pl. with ckts.for Mag.Res.Del.Lines
31	G207	15	1.0M		-5.8%	.80*	12	6.0						Squaring Amp;tr 5.0us;tf 5.0us.
32	PD545	15	1.0MΔ	MON	-10%	-2.0*	27	0.0		-55	85	K15254	M197	Counter-Display Driver.
33	C1161	15	1.0M	MOS	4.0	1.0	12	5.5		-55	100		TO87	32 Bit Random Access Mem P-Chan DTL/TTL
34	EA1401	15	1.0M	MOS	-9.0%	-2.0*	26	0.0	300m	-55	85			256 word 1Bit/Word Read/Write access mem.
35	EA1801	15	1.0M	MOS	-9.0%	-2.0*	26	0.0	1.0	-55	85	K15302	M193	Control Logic array;tp D150ns.
36	EA1802	15	1.0M	MOS	-9.0%	-2.0*	26	0.0	1.0	-55	85	K15303	M193	Register array; tpD150ns.
37	EA1803	15	1.0M	MOS	-9.0%	-2.0*	26	0.0	1.0	-55	85	K15304	M193	Carry array; tpD250ns.
38	EA1804	15	1.0M	MOS	-9.0%	-2.0*	26	0.0	1.0	-55	85	K15305	M193	And/Or Gating Array;tpD180ns.
39	EA1806	15	1.0M	MOS	-9.0%	-2.0*	26	0.0	1.0	-55	85	K15306	M151a	Variable Hex Gate array;tpD250ns.
40	EA1808	15	1.0M	MOS	-9.0%	-2.0*	26	0.0	1.0	-55	85	K15307	M151a	Fixed logic array;tpD150ns.
41	EA3000	15	1.0M	MOS	-12	0.0	26	0.0	300m†	-55	85		M151a	256 words 9 bits/word read only memory.
42	ITT1107C	15	1.0MΔ	MOS	-10%	-2.0*	27	0.0		-55	85	K15331	M214	Counter Decoder Driver.
43	MB01	15	1.0M	MOS	9.0	1.0	27		150m	-55	125			2048X1 Read Only Memory;DTL and TTL Comp.
44	MC1124L	15	1.0M	MOS	-12%	-2.5*†	15	0.0	75m	0	75	K15127	TO116	Quad Type T Flip Flop.
45	PMS256X1C	15	1.0M	MOS	-9.0%	-2.0*	25	0.0	400m†	0	70	K15356	M194	256 Bit R/W Random Access Memory.
46	4521	15	1.0M	PCB	0.0	-3.0	15	10	980m	-20	55	K1550	CB30	1 ckt;Magnetic Drum-X-Selector.
47	4522	15	1.0M	PCB	-3.0	0.0	15	10	1.9	-20	55	K1551	CB30	1 ckt Magnetic Drum-Y-Selector.
48	8005	15	1.0M	PCB	-4.4	0.0	20	20	3.2	0	55	K1529	CB2	2 ckt;Read amp;3.5 to 150mV p-p input.
49	8010	15	1.0M	PCB	-4.4	0.0	30	20	9.0	0	55	K1530	CB2	2 ckt;Write amp;-20V and 0.0V output.
50	AX14	15	1.0M	PCB	8.0	0.0	25	25	3.8	-55	100	K1567	CB34	7 Cable Driving Circuits.
51	GH11	15	1.0M	PCB	8.0	0.0		25	4.8	-55	100	K1560	CB34	4x8 Select Matrix,31;3 Element Gate.
52	GRG1-5	15	1.0M	PCB	-10	0.0	12	0.0	36m	0	55	K1580	CB15	4 ckts;Reset Gate.
53	GX12	15	1.0M	PCB	-25	0.0		25	2.4	-55	100	K1560	CB34	4x8 Select Matrix,31;3 Element Gate.
54	IDN0241	15	1.0M	PCB	2.0%	1.1*	0	5	440m	0	75		CB51	Divide By N
55	MC26	15	1.0M	PCB	-6.2	0.0	18	18	2.2	0	55		CB25	BCD Corrector; 1Ckt;tr-tf-100nsec.
56	MC43	15	1.0M	PCB	-6.2	0.0	18	18	1.1	0	55		CB25	Equality Comparator; 1Ckt;tr-tf-100nsec.
57	MC44	15	1.0M	PCB	-6.2	0.0	18	18	6.6	0	55		CB25	Hi-Lo Comparator; 1Ckt; tr-tf-100nsec.
58	MC46	15	1.0M	PCB	-6.2	0.0	18	18	3.6	0	55		CB25	Parity Module; 1Ckt; tr-tf-100nsec.
59	MC48	15	1.0M	PCB	-6.2	0.0	18	18	2.0	0	55	K1531	CB25	4 Section Parallel Digital Scanner
60	MS48	15	1.0M	PCB	6.2	0.0	18	18	2.0	-30	100	K1531	CB25	4 Section Parallel Digital Scanner.
61	UD1514B	15	1.0M	TFH	5.0	2.0	0	12	5.0m	-55	125	K1568	M57	Steering network for gating flip flops.
62	UD1524B	15	1.0M	TFH	5.0	2.0	0	12	5.0m	-55	125	K1568	M57a	Steering network for gating flip flops.
63	U603	15	1.0M	3DM	0.0	6.5		12			125	K1512	M60	Multi-purpose ckt.
64	UB603	15	1.0M	3DM	0.0	6.5		12			125	K1512	M61	Multi-purpose ckt.
65	MA01	15	1.3M	MOS	4.0	1.0	12	5.0	140m	-55	125			256X10 Read Only Memory;DTL and TTL Comp.
66	NS8000	15	1.5M	TFH					2.0	-55	125	K1538	CN28	Trans;Isolated;Integrated Chopper.
67	PM8803	15	1.5M	3DM									ZB37	Shift Register Gate; DDL
68	4304	15	1.6M	PCB	-3.0	0.0	15	10	100m	-20	55	K1546	CB30	3 ckts; Delay Control.
69	4305	15	1.6M	PCB	-15	0.0	15	0.0	90m	-20	55	K1547	CB30	6 ckts;Delay Control.
70#	OMY102	15	2.0M	MON	3.0%	.75*	6.0	6.0	3.5m	-55	125	K15113	TO74	Steering Circuit.
71#	OMY122	15	2.0M	MON	3.0%	.75*	6.0	6.0	3.5m	0	75	K15113	TO74	Steering Circuit.
72	PMS16X4C	15	2.0M	MOS	-9.0%	-2.0*	27	0.0	81m%	0	70	K15354	TO116	64 Bit R/W Random Access Memory.
73	RM01	15	2.0M	MOS	4.0	1.0	12	5.0	350m	-55	125			128X1/64X2/32X4/Random Access Memory.
74	ED1A	15	2.0M	PCB	-10	0.0	12	6	1.3	-20	55		CB10	6 BIT Equality Det.,Parallel Comparator
75	DC2MFT2	15	2.0M	PCM	-6.0	0.0	18	18		-55	55			Spl. AND Gating for CLI DC02 FF4
76	DC2MSFT2	15	2.0M	PCM	6.0	0.0	18	18		-55	100			Spl. AND Gating for CLI DC02S FF4
77	UD1414B	15	2.0M	TFH	5.0	2.0	0	9	10m	-55	125	K1568	M57	Steering network for gating flip flops.
78	UD1424B	15	2.0M	TFH	5.0	2.0	0	9	10m	-55	125	K1568	M57a	Steering network for gating flip flops.
79	EM2620	15	2.0M	3DM	0.0	-6.0	12	6	48m	-55	71	K1583	M62b	Reset Gate
80	EM2621	15	2.0M	3DM	0.0	-6.0	6	6	366m	-55	71	K1584	M62a	Pulse Distributor
81	EM3020	15	2.0M	3DM	0.0	6.0	6	12	80m	-55	125	K1590	M62c	Reset Generator
82	EM3022	15	2.0M	3DM	0.0	6.0	6	12		-55	125	K1592	M62a	2 Ckts; Comparator
83	EM3051	15	2.0M	3DM	0.0	6.0	6	12	160m	-55	125			Level Detector
84	PM10953	15	2.0M	3DM	-6.5	0.0							ZB37	Reversible Shift Register Gate; DDL
85	RG23-1	15	2.0M	3DM						-35	125	K1572a	M16	3 ckts; Reset Gen;RC type.
86	RM21-1	15	2.0M	3DM	12	0.0	12	12		-35	125	K1573a	M16	1 ckt;Reset Amp;Pulse and DC Control.
87	5146C	15	3.0M	MOH			15	15	240m%	-25	85		M⍁	Peak Sense and Hold.
88	BCD8	15	3.0M	PCB	1.0	0.0	0	12	3.1	0	65	K151	CB8	4 or 8 line BCD;counter;shift register.
89	BCD8A	15	3.0M	PCB	1.0%	.50*	0.0	3.0		0	72		CB8	Dec. Cntr;Shift Reg;BCD-DEC Display.
90	PR330	15	5.0M	MOH			0.0	6.0	2.0	0	55		CB13	-10V Precision Reference.
91	RC330	15	5.0M	MOH	6.3	0.0	0.0	6.0	1.3	0	55		CB13	8 Reed-Relays, Micro Min.
92	XD335	15	5.0M	MOH	6.3*	1.1*	0	6.3	250m	0	55	K1588	CB13	X Mission Line Driver, 50, 75, 93 Ohms.
93	1571	15	5.0M	PCB	-3.0	0.0	15	10	2.7	-20	55	K1543a	CB30	Dual Sense Amplifier.
94	IDS0246	15	5.0M	PCB	2.0%	1.1*	0	5	250m	0	75	K15126	CB51	Digital Scanner;4-Line;4-Source
95	IDS2246	15	5.0M	PCB	2.0%	1.1*	0	5	250m	0	75	K15126	CB51	Digital Scanner;4-Line;4-Source
96	IMC0243	15	5.0M	PCB	2.0%	1.1*	0	5	425m	0	75	K15110	CB51	4-Bit Digital Magnitude Comparator
97	IMC2243	15	5.0M	PCB	2.0%	1.1*	0	5	425m	0	75	K15110	CB51	4-Bit Digital Magnitude Comparator
98	IPG0258	15	5.0M	PCB	2.0%	1.1*	0	5	550m	0	75		CB51	8-Bit Parity Gen;Ck.Logic w/memory
99	IPG0259	15	5.0M	PCB	2.0%	1.1*	0	5	450m	0	75		CB51	8-Bit Parity Gen; Check Logic
100	IPG0260	15	5.0M	PCB	2.0%	1.1*	0	5	375m	0	75		CB51	6-Bit Parity Gen;Ck.Logic w/memory
101	IPG0261	15	5.0M	PCB	2.0%	1.1*	0	5	290m	0	75		CB51	6-Bit Parity Gen; Check Logic
102	IPG2258	15	5.0M	PCB	2.0%	1.1*	0	5	550m	0	75		CB51	8-Bit Parity Gen;Ck.Logic w/memory
103	IPG2259	15	5.0M	PCB	2.0%	1.1*	0	5	450m	0	75		CB51	8-Bit Parity Gen; Check Logic
104	IPG2260	15	5.0M	PCB	2.0%	1.1*	0	5	375m	0	75		CB51	6-Bit Parity Gen;Ck.Logic w/memory
105	IPG2261	15	5.0M	PCB	2.0%	1.1*	0	5	290m	0	75		CB51	6-Bit Parity Gen; Check Logic
106	ITG0217	15	5.0M	PCB	2.0%	1.1*	0	5	250m	0	75		CB51	Dual 7-Line Transfer Gate
107	ITG0233	15	5.0M	PCB	2.0%	1.1*	0	5	400m	0	75		CB51	10-Line; 2-Source Transfer Gate
108	ITG2217	15	5.0M	PCB	2.0%	1.1*	0	5	250m	0	75		CB51	Dual 7-Line Transfer Gate
109	ITG2233	15	5.0M	PCB	2.0%	1.1*	0	5	400m	0	75		CB51	10-Line; 2-Source Transfer Gate
110	MX30	15	5.0M	PCB	-6.0	0.0	6	12	300m	-20	55		CB13a	10 Chan. Anal. Multiplexer Switches.

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) MAX. OPERATING FREQ.
(3) PROCESS (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL		POWER SUPPLY SPAN		MAX. TOTAL PKG. DISS. (W)	TEMP.		DRAWINGS		GENERAL DESCRIPTION
					'1' (V)	'0' (V)	NEG. (V)	POS. (V)		LOW °C	HI °C	LOGIC DWG. No	OUTLINE DWG. No Δ=MO	
1	TD02	15	5.0M	PCB	.50%	4.5*†	5	5		0	70	K15131		4 Ckts.; THRESHOLD DETECTOR.
2	UD2515C	15	5.0M	TFH	5.0	2.0	0	12	5.0m	-55	125	K1568	M57	Steering network for gating flip flops.
3	UD2525C	15	5.0M	TFH	5.0	2.0	0	12	5.0m	-55	125	K1568	M57a	Steering network for gating flip flops.
4	CTuL970	15	8.0M	MON	2.5	-.50	2.0	4.5		15	55			8-Bit Store.
5	G107	15	10M		-5.5%	.80*	12	6.0						Squaring Amp;tr 600ns;tf 1.4us.
6	2NB1001	15	10M	MON	.81	.21	0.0	4.0	70m	-55	125	K158	CN19	Counter Adapters.
7	2NB2001	15	10M	MON	.84	.25	0.0	4.0	70m	0	100	K158	CN19	Counter Adapters.
8	2NB3001	15	10M	MON	.91	.25	0.0	3.6	70m	15	65	K158	CN19	Counter Adapters.
9	2NB4001	15	10M	MON	.84	.25	0.0	4.0	70m	0	75	K158	CN19	Counter Adapters.
10	6M80G	15	10M	MON	1.8	1.1	0	5	250m	-55	125	K15124	TO84	16 Bit Scratch Pad Memory.
11	6M80K	15	10M	MON	1.8	1.1	0	5	250m	-55	125	K15124	TO116	16 Bit Scratch Pad Memory.
12	6M81G	15	10M	MON	1.8	1.1	0	5	250m	-55	125	K15124	TO84	16 Bit Scratch Pad Memory.
13	6M81K	15	10M	MON	1.8	1.1	0	5	250m	-55	125	K15124	TO116	16 Bit Scratch Pad Memory.
14	6M82D	15	10M	MON	1.8	1.1	0	5	250m	0	75	K15124	TO116	16 Bit Scratch Pad Memory.
15	6M82G	15	10M	MON	1.8	1.1	0	5	250m	0	75	K15124	TO84	16 Bit Scratch Pad Memory.
16	6M83D	15	10M	MON	1.8	1.1	0	5	250m	0	75	K15124	TO116	16 Bit Scratch Pad Memory.
17	6M83G	15	10M	MON	1.8	1.1	0	5	250m	0	75	K15124	TO84	16 Bit Scratch Pad Memory.
18	CTuL968	15	10M	MON	2.5	-.50	2.0	4.5		15	55			Dual Gated Latch,2-Bit Scratch Pad Mem.
19	HD1-0145-2	15	10M	MON	2.4	.80	0.0	5.0	500m	-55	125		M151	Counter/Latch/Decoder/7 Seg Driver.
20	HD1-0145-5	15	10M	MON	2.4	.80	0.0	5.0	500m	0	75		M151	Counter/Latch/Decoder/7 Seg Driver.
21	SE518	15	10M%	MON						-55	125	K1130		Analog Comparator;Gain 1700.
22	SM82	15	10M	MON	1.8	1.1	0	5	250m	0	75	K15124	ZB100	16 Bit Scratch Pad Memory
23	SM83	15	10M	MON	1.8	1.1	0	5	250m	0	75	K15124	ZB100	16 Bit Scratch Pad Memory
24	BT13	15	10M%	PCB	4.0	0.0	0.0	8.0	1.7	5	71	K15103	CB37a	Buffered Matrix: 4x4.
25	D4081	15	10M	PCB	2.0%	.95*	22	22	2.5m	0	50		CB⌀	Sample and Hold-.01%(1 Card,2 Card Spaces)
26	FT27	15	10M%	PCB	4.0	0.0	0	8	1.7	5	71	K15105	CB37a	12 Buffered Latching Ckts.
27	IT13	15	10M%	PCB	4.0	0.0	0.0	8.0	1.7	5	71	K15103a	CB37a	Inverter Matrix: 4x4.
28	IT14	15	10M	PCB	4.0	0.0	0.0	8.0	1.2	5	71		CB37a	Matrix of 8 Buffered AND/OR Gates.
29	DC10MFT2	15	10M	PCM	-6.0	0.0	18	18		-55	55			Spl. AND Gating for CLI DC10 FF4
30	UD2415C	15	10M	TFH	5.0	2.0	0	9	10m	-55	125	K1568	M57	Steering network for gating flip flops.
31	UD2425C	15	10M	TFH	5.0	2.0	0	9	10m	-55	125	K1568	M57a	Steering network for gating flip flops.
32	520#	15	10M	3DM			25	0		0	50			High Freq. Polar Multiplier.
33	NC9	15	20M	MOH	5.0	0.0				-55	125	K1565	CN44	2 Ckt; F.F.Steering Gate
34	PC9	15	20M	MOH	5.0	0.0				-55	125	K1565	FP8d	2 Ckt.; F.F. Steering Gate.
35	6M60G	15	20M	MON	3.3	.25†	0	5	120m	-55	125	K15122	TO84	Dig.Function Array;4 Bit Storage Reg.
36	6M60K	15	20M	MON	3.3	.25†	0	5	120m	-55	125	K15122	TO116	Dig.Function Array;4 Bit Storage Reg.
37	6M61G	15	20M	MON	3.3	.25†	0	5	120m	-55	125	K15122	TO84	Dig.Function Array;4 Bit Storage Reg.
38	6M61K	15	20M	MON	3.3	.25†	0	5	120m	-55	125	K15122	TO116	Dig.Function Array;4 Bit Storage Reg.
39	6M62D	15	20M	MON	3.3	.25†	0	5	120m	0	75	K15122	TO116	Dig.Function Array;4 Bit Storage Reg.
40	6M62G	15	20M	MON	3.3	.25†	0	5	120m	0	75	K15122	TO84	Dig.Function Array;4 Bit Storage Reg.
41	6M63D	15	20M	MON	3.3	.25†	0	5	120m	0	75	K15122	TO116	Dig.Function Array;4 Bit Storage Reg.
42	6M63G	15	20M	MON	3.3	.25†	0	5	120m	0	75	K15122	TO84	Dig.Function Array;4 Bit Storage Reg.
43	6M70G	15	20M	MON	3.3	.25†	0	5	120m	-55	125	K15122a	TO84	Dig.Function Array;4 Bit Storage Reg.
44	6M70K	15	20M	MON	3.3	.25†	0	5	120m	-55	125	K15122a	TO116	Dig.Function Array;4 Bit Storage Reg.
45	6M71G	15	20M	MON	3.3	.25†	0	5	120m	-55	125	K15122a	TO84	Dig.Function Array;4 Bit Storage Reg.
46	6M71K	15	20M	MON	3.3	.25†	0	5	120m	-55	125	K15122a	TO116	Dig.Function Array;4 Bit Storage Reg.
47	6M72D	15	20M	MON	3.3	.25†	0	5	120m	0	25	K15122a	TO116	Dig.Function Array;4 Bit Storage Reg.
48	6M72G	15	20M	MON	3.3	.25†	0	5	120m	0	75	K15122a	TO84	Dig.Function Array;4 Bit Storage Reg.
49	6M73D	15	20M	MON	3.3	.25†	0	5	120m	0	25	K15122a	TO116	Dig.Function Array;4 Bit Storage Reg.
50	6M73G	15	20M	MON	3.3	.25†	0	5	120m	0	75	K15122a	TO84	Dig.Function Array;4 Bit Storage Reg.
51#	9308-1-4M	15	20M%	MON	1.7%	.90*	0.0	5.0	450m	-55	125	K15206	FP56	Dual four bit latch.
52#	9308-9-4M	15	20M%	MON	1.8%	.85*	0.0	5.0	585m	0	75	K15206	FP56	Dual four bit latch.
53#	9309-1-4L	15	20M%	MON	1.7%	.90*	0.0	5.0	200m	-55	125	K15207	FP47a	Dual four input Digital Multiplexer.
54#	9309-9-4L	15	20M%	MON	1.8%	.85*	0.0	5.0	200m	0	75	K15207	FP47a	Dual four input Digital Multiplexer.
55#	9312-1-4L	15	20M%	MON	1.7%	.90*	0.0	5.0	215m	-55	125	K15208	FP47a	Eight input Digital Multiplexer.
56#	9312-1-7B	15	20M%	MON	1.7%	.90*	0.0	5.0	215m	-55	125	K15208	M153a	Eight input Digital Multiplexer.
57#	9312-9-4L	15	20M%	MON	1.8%	.85*	0.0	5.0	215m	0	75	K15208	FP47a	Eight input Digital Multiplexer.
58#	9312-9-7B	15	20M%	MON	1.8%	.85*	0.0	5.0	215m	0	75	K15208	M153a	Eight input Digital Multiplexer.
59	DM7200	15	20M	MON	2.4%	.40*	0	5		-55	125			Four-Bit Comparator.
60	DM7210	15	20M	MON	2.4%	.40*	0	5		-55	125			8 Channel Digital Switch.
61	DM8200	15	20M	MON	2.4%	.40*	0	5		0	70			Four-Bit Comparator.
62	DM8200D	15	20M	MON	2.0%	.80*	0	7	175m†	0	70		M75f	4 Bit Comparator.
63	DM8210	15	20M	MON	2.4%	.40*	0	5		0	70			8 Channel Digital Switch.
64	DM8210D	15	20M	MON	2.0%	.80*	0	5		0	70		M75f	8 Channel Digital Switch.
65#	FHJ141	15	20M	MON	3.3	.25†	0	5.0	120m	0	75	K15122	ZB100	Dig Function Array;4 Bit Storage Reg.
66	SM60	15	20M	MON	3.3	.25†	0	5	120m	-55	125	K15122	ZB100	Dig.Function Array;4 Bit Storage Reg.
67	SM61	15	20M	MON	3.3	.25†	0	5	120m	-55	125	K15122	ZB100	Dig.Function Array;4 Bit Storage Reg.
68	SM62	15	20M	MON	3.3	.25†	0	5	120m	0	75	K15122	ZB100	Dig.Function Array;4 Bit Storage Reg.
69	SM63	15	20M	MON	3.3	.25†	0	5	120m	0	75	K15122	ZB100	Dig.Function Array;4 Bit Storage Reg.
70	SM70	15	20M	MON	3.3	.25†	0	5	120m	-55	125	K15122a	ZB100	Dig.Function Array;4 Bit Storage Reg.
71	SM71	15	20M	MON	3.3	.25†	0	5	120m	-55	125	K15122a	ZB100	Dig.Function Array;4 Bit Storage Reg.
72	SM72	15	20M	MON	3.3	.25†	0	5	120m	0	75	K15122a	ZB100	Dig.Function Array;4 Bit Storage Reg.
73	SM73	15	20M	MON	3.3	.25†	0	5	120m	0	75	K15122a	ZB100	Dig.Function Array;4 Bit Storage Reg.
74	6M50G	15	30M	MON	3.3	.25†	0	5	120m	-55	125		TO84	Decade Divider.
75	6M50K	15	30M	MON	3.3	.25†	0	5	120m	-55	125		TO116	Decade Divider.
76	6M51G	15	30M	MON	3.3	.25†	0	5	120m	-55	125		TO84	Decade Divider.
77	6M51K	15	30M	MON	3.3	.25†	0	5	120m	-55	125		TO116	Decade Divider.
78	6M52D	15	30M	MON	3.3	.25†	0	5	120m	0	75		TO116	Decade Divider.
79	6M52G	15	30M	MON	3.3	.25†	0	5	120m	0	75		TO84	Decade Divider.
80	6M53D	15	30M	MON	3.3	.25†	0	5	120m	0	75		TO116	Decade Divider.
81	6M53G	15	30M	MON	3.3	.25†	0	5	120m	0	75		TO84	Decade Divider.
82	SM50#1	15	30M	MON	3.3	.25†	0.0	5.0	120m	-55	125		FP18	Decade Divider.
83	SM50#2	15	30M	MON	3.3	.25†	0.0	5.0	120m	-55	125		M75	Decade Divider.
84	SM51#1	15	30M	MON	3.3	.25†	0.0	5.0	120m	-55	125		FP18	Decade Divider.
85	SM51#2	15	30M	MON	3.3	.25†	0.0	5.0	120m	-55	125		M75	Decade Divider.
86	SM52#1	15	30M	MON	3.3	.25†	0.0	5.0	120m	0	75		FP18	Decade Divider.
87	SM52#2	15	30M	MON	3.3	.25†	0.0	5.0	120m	0	75		M75	Decade Divider.
88	SM53#1	15	30M	MON	3.3	.25†	0.0	5.0	120m	0	75		FP18	Decade Divider.
89	SM53#2	15	30M	MON	3.3	.25†	0.0	5.0	120m	0	75		M75	Decade Divider.
90	426	15	30M	PCB	-6.8	0.0	12	12	570m	0	55		CB24	BCD Corrector
91	RA1248	15	30M	3DM	2.6	.45	5.0	5.0	63	-55	125		TO116	Triple Line Receiver
92	MC1035L	15	50M	MON	-.75%	-1.6*	8	0	140m†	0	75	K15159	TO116	Dual Schmitt Trigger;Triple Diff. Amp.
93	DC50MSFT2	15	50M	PCM	3.0	0.0	12	12		-10	100			Special AND Gating for CLI DC50S FF4
94	MC1020L	15	80M	MON	-.75	-1.6	8	0	115m	0	75	K15125	TO116	Quad Line Receiver;tpd-4ns;F.O.-25.
95	MC1029L	15	80M	MON	-.75	-1.6	8	0	160m†	0	75	K15146	TO116	2x3 Data Distributor;tpd-4ns;ECT.
96	1591	15	200M				0.0	18					FP9	Volt.Controlled Osc;Timing Sens.-3Mc/V.
97#	MN130	16	100k	MOS	-10%	-1.0*	-27	0.0	200m	-20	75	K1613	TO101	2 plus 4 Frequency Divider
98	PD455	16	100k†	MOS	-18%	.30*	10	0.0	250m	0	70	K1610	M209	Bi-stable;Trans.time 20us max.
99	PD470	16	100k	MOS	-8.5%	-1.1*†	-33	0.0	250m	-20	70	K1610	M209	6 (3-2-1) Stage Binary Divider.
100	PD474	16	100k	MOS	-7.2%	-1.2*†	-33	0.0	250m	0	70	K1610	M209	4 (2-1-1) Stage Binary Divider.
101	PD501	16	100k	MOS	-8.5%	-1.1*†	-33	0.0	250m	-30	70	K1610	M191	6 (3-2-1) Stage Binary Divider with Reset.
102	PL4C06C	16	100k	MOS	-9.0%	-2.0*	29	0	500m	0	70		TO116	6 Stage frequency divider.
103	PD487	16	200k†	MOS	-9.0%	-2.0*	-27	0.0	250m	-30	70	K1610	M209	6 stgs;Trans. time 1.0us max.
104	PD500	16	200k†	MOS	-9.0%	-2.0*	13	0.0	250m	-30	70	K1610	M209	6 stages;Trans. time 1.0us max.
105	PL4C07AC	16	500k	MOS	-9.0%	-2.0*	29	0.0	500m	0	70		TO116	7 Stage frequency divider.
106	PL4C07C	16	500k	MOS	-9.0%	-2.0*	29	0.0	500m	0	70	K1611	TO116	7 Stage; Cap 5.0pF.
107	AY1-5050	16	1.0M		-2.0%		27	0.0		0	70			Freq.Div.3-2-1-1;output Z 2kΩ.
108	AY1-6721-4	16	1.0M		-2.0%		27	0.0		0	70		TO5	Freq.Div.2-1-1;output Z 2kΩ.
109	AY1-6721-5	16	1.0M		-2.0%		27	0.0		0	70		TO5	Freq.Div.3-2;output Z 2kΩ.
110	AY1-6721-6	16	1.0M		-2.0%		27	0.0		0	70		TO5	Freq.Div.3-2-1;output Z 2kΩ.

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) MAX. OPERATING FREQ.
(3) PROCESS (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	2 MAX OPER-ATING FREQ. (Hz)	3 PRO-CESS	LOGIC LEVEL		POWER SUPPLY SPAN		MAX. TOTAL PKG. DISS. (W)	TEMP.		DRAWINGS		GENERAL DESCRIPTION
					'1' (V)	'0' (V)	NEG. (V)	POS. (V)		LOW °C	HI °C	LOGIC DWG. No	OUTLINE DWG. No Δ=MO	
1	AY1-6722	16	1.0M		-2.0%		27	0.0		0	70			Freq.Div.3-2-1-1-1;output Z 2kΩ.
2	PD460	16	1.0M†	MOS	9.3%	.20*†	35	0	250m	-20	65	K164	M144	8 Stage Bi-stable freq divider;P-Chan. enh
3	H001	16	2.0M										M19d	
4#	OMY101	16	5.0M	MON	3.0%	.75*	6	6	40m	-55	125	K161	TO74	Bistable circuit binary divider
5#	OMY121	16	5.0M	MON	3.0%	.75*	6.0	6.0	40m	0	75	K161	TO74	Bistable Circuit Binary Divider.
6#	SP207B	16	5.0MΔØ	MON	.84	.22	0.0	8.0	50m†	0	70	K166	CN23a	Divides by any number 2 to 8
7#	SP208B	16	5.0MΔ	MON	.84	.22	0.0	8.0	48m†	0	70	K162	CN23a	Divides by any number 2 to 8.
8#	SP258B	16	5.0M	MON	.84	.22	0	8	48m	0	70	K162	FP2	Divides by any number between 2 to 8.
9	DM7520	16	20M	MON	2.4%	.40*	0	5		-55	125			n-Bit Divider.
10	DM8520	16	20M	MON	2.4%	.40*	0	5		0	70			n-Bit Divider.
11	SM90	16	35M	MON	3.1	.40	0	5	125m	-55	125	K15202	ZB164	Decade Frequency Counter.
12	SM91	16	35M	MON	3.1	.40	0	5	85m	-55	125	K15202	ZB164	Decade Frequency Counter.
13	SM92	16	35M	MON	3.1	.40	0	5	125m	0	75	K15202	ZB164	Decade Frequency Counter.
14	SM93	16	35M	MON	3.1	.40	0	5	85m	0	75	K15202	ZB164	Decade Frequency Counter.
15	CAG4	17					15	15		-55	125	K0236	CN57	Rds 50 ohms max;Ton,Toff 700ns max.
16	SD5600	17					0.0	18	7.2m	-54	125			Quad N Channel;Ron 200Ω max;Roff 10G Ω typ
17#	ZN400E	17					15	15	300m	0	70	K1717	M105ac	Is 1.8mA;Bridge Current 1.5mA;Res 200Ω max
18#	ZN400T	17					15	15	300m	0	70	K1717	CN6c	Is 1.8mA;Bridge Current 1.5mA;Res 200Ω max
19	DG126L	17		MON	2.5%	.80*	18	12	750m	-55	125	K177a	TO86	Dual DPST with drivers;ton 600ns;toff1.6us
20	DG129L	17		MON	2.5%	.80*	18	12	750m	-55	125	K177b	TO86	Dual DPST with drivers;ton600ns;toff1.6us.
21	DG133L	17		MON	2.5%	.80*	18	12	750m	-55	125	K178a	TO86	Dual SPST with drivers;ton600ns;toff1.6us.
22	DG140L	17		MON	2.5%	.80*	18	12	750m	-55	125	K177c	TO86	Dual DPST with drivers;ton1.0us;toff2.5us.
23	DG141L	17		MON	2.5%	.80*	18	12	750m	-55	125	K178c	TO86	Dual SPST with drivers;ton 1.0us;toff2.5us
24#	MA03	17		MON	20		35	0.0		-55	125			Digital Controlled Audio Switch.
25	PL4S10	17		MOS			30	.30	1.0	-55	125	K175	FP34	VGST-6.5V max;Ron-250 ohms max;Roff-.2k.
26	PL4S10C	17		MOS			30	.30	1.0	0	70	K175	FP34	VGST-6.5V max;Ron-250 ohms max;Roff-.2k.
27	SI3002	17		MOS	2.0	.80	20	10	500m	-55	125	K1710	TO100	MOS SW w/Driver;Rds(on) 100Ω.
28	SI3002A	17		MOS	2.0	.80	20	10	500m	-55	125	K1710a	TO100	MOS SW w/Driver;Rds(on) 100Ω.
29	TMS6005JR	17		MOS					500m	-55	85	K1748	M279	6-Channel;Rds 200Ω max;ton 33ns max.
30	TMS6009JR	17		MOS					500m	-55	85	K1748	M279	6-Channel;Rds 200Ω max;ton 33ns max.
31	DAS2128	17		TFH	15%	1.0*	15	15	1.2	-55	125		CN69	Quad SPST;Ton 1.0nS max;Toff 1.0nS max.
32	5430	17	100k	3DM	2.0%	.50*	0.0	15	15m	-25	75			Ron 300Ω;Von 2.0V;Voff 0.0V;Ip 1.0mA.
33	5349	17	300k	3DM	3.0%	.50*	15	15	180m	-25	75			Von 0.0V;Voff 10V;Ip ±6.0mA.
34	DAS2126	17	1.0M		8.0%	†	18	18		-55	125		CN48k	SPST switch; Ton 1.5us; Toff 1.5us.
35	DAS2132	17	1.0M		10%	†	18	18		-55	125		Δ006af	Dual SPST switch;Ton 500nsmax;Toff1.0usmax
36	DAS2136	17	1.0M		10%	†	18	18		-55	125		Δ006af	Dual SPST switch;Ton500nsmax;Toff500nsmax
37	DAS2126B6	17	1.0M	TFH	2.0	0.0	18	18		-55	125		Δ004AF	SPDT;Ton 2.0us max;Toff 2.0us max.
38	DAS2132B6	17	1.0M	TFH	3.0	0.0	18	18		-55	125		Δ004AF	Dual SPST;Ton 500ns max;Toff 1.0us max.
39	DAS2133B6	17	1.0M	TFH	0.0	3.0	18	18		-55	125		Δ006af	Dual SPST;Ton 500ns max;Toff 1.0us max.
40	DAS2136B6	17	1.0M	TFH	3.0	0.0	18	18		-55	125		Δ004AF	Dual SPST;Ton 500ns max;Toff 500ns max.
41	DAS2137B6	17	1.0M	TFH	3.0	0.0	18	18		-15	125		Δ004AF	Dual SPST;Ton 500ns max;Toff 500ns max.
42	CD4016	17	10M%	MOS	.80%		0.0	6.0	5.0u%	-55	125	K1722	Δ004AF	Quad bilateral;tpD 10ns; Cap 4.0pF.
43	CD4016D	17	10M%	MOS	.80%		0.0	6.0	5.0u%	-55	125	K1722	Δ001AD	Quad bilateral;tpD 10ns; Cap 4.0pF.
44	CD4016E	17	10M%	MOS	.80%		0.0	5.0	50u%	-40	80	K1722	Δ001ab	Quad bilateral;tpD 10ns; Cap 5.0pF.
45	SCL4016D	17	10M%	MOS	.80%		0.0	6.0	5.0u%	-55	125	K1723	TO116	Quad Bilateral;tpd 10ns cap. 4.0pF.
46	SCL4016F	17	10M%	MOS	.80%		0.0	6.0	5.0u%	-55	125	K1722	TO86	Quad Bilateral;tpd 10ns cap 4.0pf.
47	PM1024C	18		MOS	-9.0%	-3.0%	25	0.0		0	70	K187a	M149	1024 bit; Access time 2.0us max.
48	PMS1024C	18		MOS	-9.0%	-2.0*	27	0.0	130m†	0	70	K187	M194	MOS 1024-Bit Static ROM.
49	PMS2560LVC	18		MOS	4.4%	.45*	12	5.0		0	70		M194	2560 Bit Rom-Low Threshold.
50	UC6596	18		MOS	2.4%	.60*	15	5.0		-55	125	K1814		Random access;permanent memory;4096 bit.
51	UC7596	18		MOS	2.4%	.60*	15	5.0		0	70	K1814		Random access;permanent memory;4096 bit.
52	UC6596S	18	100kΔ	MOS	2.0%	.60*	15	5.0	50m	-55	75			4096 Bit Access time 5.0us max.
53	UC7596S	18	100kΔ	MOS	2.0%	.60*	15	5.0	50m	-55	75			4096 Bit Access time 5.0us max.
54	MM420	18	330k%	MOS	3.0	9.3	12	12	300m	-55	125			256 Bit Read Only Memory.
55	MM520	18	330k%	MOS	3.0	9.3	12	12	300m	0	70			256 Bit Read Only Memory.
56	PMS2048C	18	1.0M	MOS	-9.0%	-2.0*	27	0.0	175m†	0	70	K1813	M194	2048 Bit;Access time 700ns.
57	PMS2048LVC	18	1.0M	MOS	-8.0%	-2.0*	12	12		0	70		M194	2048 Bit;Rom-Low Threshold.
58	PMS2240C5	18	1.0M	MOS	-9.0%	-2.0*	27	0.0	300m†	0	70		M194	64 Char Gen 7x5 line out font.
59	PMS2240C7	18	1.0M	MOS	-9.0%	-2.0*	27	0.0	300m†	0	70		M194	64 Char Gen 5x7 line out font.
60	L150AL	19			2.6%	.40†*	5.0	5.0	500m%	-55	125	K1922	TO89	Vth 30mV;VIO 2.0mVtyp; td 55ns.
61	L150CL	19			2.6%	.40†*	5.0	5.0	500m%	0	70	K1922	TO89	Vth 30mV;VIO 2.0mVtyp; td 55ns.
62	L151AL	19			4.75%	.40†*	0.0	5.0	750m%	-55	125	K1923	TO86	Vth 28mV;VIO 2.0mVtyp; td 90ns.
63	L151CL	19			4.75%	.40†*	0.0	5.0	750m%	0	70	K1923	TO86	Vth 28mV;VIO 2.0mVtyp; td 90ns.
64	QC1440F	19			5.8%	.40*†	6.0	6.0	500m	0	75	K196	TO91	VTH 22mV max;Vio 6.0mV max;tpd 20ns max.
65	QC1440G	19			5.8%	.40*†	6.0	6.0	680m	0	75	K196	CN29	VTH 22mV max;Vio 6.0mV max;tpd 20ns max.
66	QC1540F	19			5.9%	.35*†	6.0	6.0	500m	-55	125	K196	TO91	VTH 20mV max;Vio 5.0mV max;tpd 15ns max.
67	QC1540G	19			5.9%	.35*†	6.0	6.0	680m	-55	125	K196	CN29	VTH 20mV max;Vio 5.0mV max;tpd 15ns max.
68#	GRS141-7524	19		MON	2.0%	.80*	0.0	5.0	210m†	0	70	K1916	M117q	Tpd 23ns;Inp.Diff. Vth 19mV max.
69#	GRS151-7525	19		MON	2.0%	.80*	0.0	5.0	210m†	0	70	K1916	M117q	Tpd 23ns;Inp.Diff. Vth 22mV max.
70	MC1440P	19		MON	5.8%	.45*†	6.0	6.0	625m	0	75	K15221	M114	Core Memory;Vth 24mV max;Vio 1.0mV.
71	MC1446L	19		MON	2.0%	.40†*	6.0	5.0	575m	0	75	K1913	M191	Four-Channel Plated-Wire.
72	MC1540P	19		MON	5.9%	.48*†	6.0	6.0	625m	-55	125	K15221	M114	Core Memory;Vth 20mV max;Vio 1.0mV.
73	MC1546L	19		MON	2.0%	.40†*	6.0	5.0	575m	-55	125	K1913	M191	Four-Channel Plated-Wire.
74	NE525A	19		MON	2.8%	.40*†	5.0	5.0	100m	0	70	K15297	TO116	Vth 8.0mV; tpd 27ns; trec 20ns.
75	NE525J	19		MON	2.8%	.40*†	5.0	5.0	100m	0	70	K15297	TO88	Vth 8.0mV; tpd 27ns; trec 20ns.
76	NE528B	19		MON	2.4%	.40*†	6.0	5.0	270m	0	70	K1924	M256	Tpd 25ns max;Tr 16ns;tf 6.0ns.
77	QC7520	19		MON	2.0%	.80*	5.0	5.0		0	70	K15221	M117	Vth 44mV;tpd 55ns; trec 20ns.
78	QC7521	19		MON	2.0%	.80*	5.0	5.0		0	70	K15221	M117	Vth 47mV;tpd 55ns; trec 20ns.
79	QC7522	19		MON	2.0%	.80*	5.0	5.0		0	70	K15222	M117	Vth 44mV;tpd 25ns; trec 20ns.
80	QC7523	19		MON	2.0%	.80*	5.0	5.0		0	70	K15222	M117	Vth 47mV;tpd 25ns; trec 20ns.
81	QC7524	19		MON	2.0%	.80*	5.0	5.0		0	70	K15223	M117	Vth 44mV;tpd 22ns; trec 20ns.
82	QC7525	18		MON	2.0%	.80*	5.0	5.0		0	70	K15223	M117	Vth 47mV; tpd 22ns; trec 20ns.
83	SC150	19		MON	2.6%	.40*†	5.0	5.0		-55	125		TO89	Vth 30mV;Vio 2.0mV;tpd 55ns;trec 80ns.
84	SC450	19		MON	2.6%	.40*†	5.0	5.0		0	70		TO89	Vth 30mV;Vio 2.0mV;tpd55ns;trec 80ns.
85#	SAS101	19		TTL	2.0%	.80*	5.0	5.0	140m%	0	70	K1914	M117k	tpD 55ns max; VTh 19mV max.
86#	SAS111	19		TTL	2.0%	.80*	5.0	5.0	140m%	0	70	K1914	M117k	tpD 55ns max; VTh 22mV max.
87#	SAS121	19		TTL	2.0%	.80*	5.0	5.0	135m%	0	70	K1915	M117k	tpD 45ns max; Vth 19mV max.
88#	SAS131	19		TTL	2.0%	.80*	5.0	5.0	135m%	0	70	K1915	M117k	tpD 45ns max; VTh 22mV max.
89#	SAS141	19		TTL	2.0%	.80*	5.0	5.0	125m%	0	70	K1916	M117k	tpD 40ns max; VTh 19mV max.
90#	SAS151	19		TTL	2.0%	.80*	5.0	5.0	125m%	0	70	K1916	M117k	tpD 40ns max; VTh 22mV max.
91	PG340	19	10M	MOH	6.3	0.0	0.0	6.0	480m	0	55		CB13	Parity Generator Circuits.
92	G302	20	25k		-6.0	0.0	12	6.0						3 amp;Voh-6.0V;Vol 0.0V;Ton 3.0us max.
93	Q413	20	25k	3DM	-.50*	-12*	12	0.0	180m	-20	65	K1570a	M59b	Power logic driver; fan out 25.
94	Q402	20	100k	3DM	-.50*	-12*	12	0.0	120m	-20	65	K1571	M59a	AC driver; fan out 25.
95	Q423	20	100k	3DM	-.50*	-12*	12	0.0	700m	-20	65	K1570	M59b	Power logic driver; fan out 25.
96	G202	20	500k		-6.0	0.0	12	6.0						3 amp;Voh-6.0V;Vol 0.0V;Ton 400ns max.
97	GA222	20	1.0M		-5.8%	-1.5*	12	6.0						3 Amp.plus AND Gates;VoH-1V max;Vol-.8Vmax
98	Q433	20	1.0M	3DM	-.50*	-12*	12	0.0	500m	-20	65	K1570	M59b	Power logic driver; fan out 25.
99	G102	20	10M		-6.0	0.0	12	6.0						3 amp;Voh-6.0V;Vol-0.0V;Ton25ns max.
100	LU356	21			3.5%	.60†*	0.0	6.0	74m†	10	55	K211	MØ	Prop. delay 55ns; fanout 17.
101	RDD981R	21							70m%				TO86	Dual 4 input; input volt 2.0ΔV.
102	SP356	21			3.5%	.60†*	0.0	6.0	74m†	0	75	K211	MØ	Prop. delay 55ns; fanout 17.
103	HDD981R	21		DTL	2.6%	.40†*	0.0	5.0	70m%	-55	125	K2124	TO86	Dual 4 input;Vi 8.0V;tpd 20ns max.
104	MC1580L	21		MON			5.0	5.0	180m	-55	125	K214	M157a	Dual line driver/receiver.
105	MC1582L	21		MON			5.0	5.0	575m	-55	125	K215	M157a	Dual MDTL/MTTL;IOL 10.2mA max.
106	MC55109L	21		MON	2.0%	.80*	0.0	5.0	675m	-55	125	K2128	M157a	Dual Line Drivers;tpd 25ns max.
107	MC55110L	21		MON	2.0%	.80*	0.0	5.0	675m	-55	125	K2128	M157a	Dual Line Drivers;tpd 25ns max.
108	PD497	21		MON	10*	0.0%	10	10	500m	0	70	K218	M54c	Dual;ton 400ns;toff 800ns.
109	QC1488	21		MON	7.0	-7.0†	9.0	9.0	1.0	0	75		M157	Quad;Tpd 200ns max;tr 55ns
110	QC7830	21		MON	2.0%	.80*	0.0	5.0	700m	-55	125		M157	Dual Diff;Tpd 18ns max;Is 18mA max.

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) MAX. OPERATING FREQ. (3) PROCESS (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL		POWER SUPPLY SPAN		MAX. TOTAL PKG. DISS. (W)	TEMP.		DRAWINGS		GENERAL DESCRIPTION
					'1' (V)	'0' (V)	NEG. (V)	POS. (V)		LOW °C	HI °C	LOGIC DWG. No	OUTLINE DWG. No Δ=MO	
1	QC8830	21		MON	2.0%	.80*	0.0	5.0	700m	0	70		M157	Dual Diff;Tpd 18ns max;Is 18mA max
2	QC9614-1F	21		MON	1.5	1.3	0.0	5.0	328m%	-55	125	K216	FP65	Toff 14ns; Ton 18ns.
3	QC9614-1J	21		MON	1.5	1.3	0.0	5.0	328m%	-55	125	K216	M148c	Toff 14ns; Ton 18ns.
4	QC9614-1P	21		MON	1.5	1.3	0.0	5.0	328m%	-55	125	K216	M148a	Toff 14ns; Ton 18ns.
5	QC9614-9F	21		MON	1.5	1.3	0.0	5.0	328m%	0	75	K216	FP65	Toff 14ns; Tòn 18ns.
6	QC9614-9J	21		MON	1.5	1.3	0.0	5.0	328m%	0	75	K216	M148c	Toff 14ns; Ton 18ns.
7	QC9614-9P	21		MON	1.5	1.3	0.0	5.0	328m%	0	75	K216	M148a	Toff 14ns; Ton 18ns.
8	QC55109	21		MON	2.0%	.80*	5.0	5.0	500m	-55	125			Dual Diff;Io 6.0mA;Tpd 25ns max
9	QC55110	21		MON	2.0%	.80*	5.0	5.0	500m	-55	125			Dual Diff;Io 12mA;Tpd 25ns max
10	QC75109	21		MON	2.0%	.80*	5.0	5.0	500m	0	70			Dual Diff;Io 6.0mA;Tpd 25ns max
11	QC75110	21		MON	2.0%	.80*	5.0	5.0	500m	0	70			Dual Diff;Io 12mA;tpD 25ns max.
12	QC75150	21		MON	8.0	-8.0	15	15	400m	0	70			Dual EIA Line Driver
13	RG160P	21		MON	3.4	.20	0.0	5.0	45m	-55	125	K15191	M105k	Buss Drivers;BVo 8.0;Io 100uA;ton 20ns.
14	RG161P	21		MON	3.4	.20	0.0	5.0	45m	-55	125	K15191	M105k	Buss Drivers;BVo 8.0;Io 100uA;ton 20ns.
15	RG162P	21		MON	3.4	.20	0.0	5.0	45m	0	75	K15191	M105k	Buss Drivers;BVo 7.0V;Io 100uA;ton 20ns.
16	RG163P	21		MON	3.4	.20	0.0	5.0	45m	0	75	K15191	M105k	Buss Drivers;BVo 7.0V;Io 100uA;ton 20ns.
17	ECL2531	21	1.0M	MON	.15%	-.15*	3.2	1.32		0	75	K229	M117m	tpd 4.6 max;Zout 50Ω.
18	XD30	21	1.0M	PCB	6.0	0.0	18	12	1.3			K1596	CB13a	Transmission Line Drivers;Io 66mA.
19	DR01	21	2.0M	PCB	1.5%	.50*	0.0	5.0		0	70	K1256	CB⍁	Coax Line Drivers;Vo 2.8Vp-p;Io 60mA.
20	XD35	21	5.0M	PCB	6.0	0.0	18	12	1.3			K1596	CB13a	Transmission Line Drivers;Io 66mA.
21	XD336	21	5.0M	PCB	1.55*	1.35%	0.0	6.0	480m	0	55	K15112	CB⍁	50,75,or 93Ω Transmission Line Driver.
22	AT11	21	10M	PCB	2.0	0.0	8.0	8.0	4.5	5	71		CB37a	14 Cable Drivers;Recievers.
23	AT12	21	10M	PCB	4.0	0.0	0.0	8.0	4.0	5	71		CB37a	14 Cable Drivers;Ckt delay 5.0ns.
24	RA245	21	30M	3DM			0.0	5.0	93m	-55	125	K212	TO84	Line Transmitters;Vo -30V;Io ±50mA.
25	RA545	21	30M	3DM			0.0	5.0	93m	0	75	K15233	TO83	Triple Line Transmitter.
26	RA1245	21	30M	3DM			0.0	5.0	93m	-55	125	K212	M75e	Line Transmitters;Vo -30V;Io ±50mA.
27	RA1545	21	30M	3DM	2.6	.45	0.0	5.5	93m	0	75	K15233	M75e	Triple Line Transmitter.
28	SC126AL	22			3.5	.40†			500m%	-55	125		TO84	IBias 300uA;Current In 2.0mA.
29	SC126CL	22			3.5	.40†			500m%	0	65		TO84	IBias 300uA;Current In 2.0mA.
30	SC127AL	22			.10	.40†			500m%	-55	125		TO86	High Input Current 155uA; td 100ns.
31	MC1265L	22		MON	-.75%	-1.6*	5.2	0.0	300m†	-55	125	K2216	M191	Triple Schmitt Trigger/Diff. Amp.
32	MC1581L	22		MON	-.78	-1.7†	5.2	5.0	185m	-55	125	K221	M157a	Dual line receiver.
33	MC1583L	22		MON		.40†*	5.0	5.0	575m	-55	125	K15286	M157a	Dual Saturated Logic Receiver.
34	MC1584L	22		MON	4.0%	.30†*	5.0	5.0	575m	-55	125	K15287	M157a	Dual MDTL/MTTL/W Active Pullup.
35	PD496	22		MON	4.5%	.50†*	5.0	5.0	200m	0	70	K224	M54c	Dual;Impedance 7.0kΩ max;ton 1.5us.
36	QC1489	22		MON	4.0	.20†	0.0	5.0	1.0	0	75		M157	Quad;Tpd 85ns max;tr 120ns
37	QC1489A	22		MON	4.0	.20†	0.0	5.0	1.0	0	75		M157	Quad;Tpd 85ns max;tr 120ns
38	QC7820	22		MON	2.5%	.40†*	0.0	5.0	600m	-55	125		M157	Dual Diff;Vi 20V;Response Time 150ns
39	QC8820	22		MON	2.5%	.40†*	0.0	5.0	600m	0	70		M157	Dual Diff;VI 20V.Response Time 150ns
40	QC9615-1F	22		MON	3.2	.18†	0.0	5.0	250m%	-55	125	K222	FP65	Toff 30ns; Ton 30ns.
41	QC9615-1J	22		MON	3.2	.18†	0.0	5.0	250m%	-55	125	K222	M148c	Toff 30ns; Ton 30ns.
42	QC9615-1P	22		MON	3.2	.18†	0.0	5.0	250m%	-55	125	K222	M148a	Toff 30ns; Ton 30ns.
43	QC9615-9F	22		MON	3.3	.25†	0.0	5.0	250m%	0	75	K222	FP65	Toff 30ns; Ton 30ns.
44	QC9615-9J	22		MON	3.3	.25†	0.0	5.0	250m%	0	75	K222	M148c	Toff 30ns; Ton 30ns.
45	QC9615-9P	22		MON	3.3	.25†	0.0	5.0	250m%	0	75	K222	M148a	Toff 30ns; Ton 30ns.
46	QC55107	22		MON	2.0%	.80*	5.0	5.0	400m	-55	125			Dual Diff;Tpd 25ns max
47	QC55108	22		MON	2.0%	.80*	5.0	5.0	400m	-55	125			Dual Diff;Tpd 25ns max
48	QC75107	22		MON	2.0%	.80*	5.0	5.0	400m	0	70			Dual Diff;Tpd 25ns max
49	QC75108	22		MON	2.0%	.80*	5.0	5.0	400m	0	70			Dual Diff;Tpd 25ns max
50	QC75154	22		MON	2.4	.40	5.0	0.0	500m	0	70			Quad EIA Line Receiver
51	RA246	22		MON	5.0	.20	5.0	5.0	63m	-55	125	K15275	TO84	Tripple receiver;Ton 14.5ns;Toff 16.2ns.
52	RA1246	22		MON	5.0	.20	5.0	5.0	63m	-55	125	K15275	M75e	Tripple receiver;Ton 14.5ns;Toff 16.2ns.
53	RM4441D	22		MON	6.9%	.35†*	10	5.0	400m	-55	125	K15205	M105x	Dual;Ton/Off 100ns; Fo,7;C.M. Rej±7.5V.
54	RM4441J	22		MON	6.9%	.35†*	10	5.0	400m	-55	125	K15205	FP28d	Dual;Ton/Off 100ns;Fo,7;C.M. Rej±7.5V.
55	RM4441T	22		MON	6.9%	.35†*	10	5.0	400m	-55	125	K15205	CN64	Dual;Ton/Off 100ns;Fo7;C.M.Rej±7.5V.
56	SC126	22		MON	3.5%	.45*	0.0	15	100m	-55	125	K15121	TO84	Io 30mA;Ton 60ns;Toff 60ns.
57	SC426	22		MON	3.5%	.45*	0.0	15	100m	0	75	K15121	TO84	Io 30mA;Ton 60ns;Toff 60ns.
58#	SP10115L	22		MON	-.98%	-1.6†*	5.2	0.0	100m†	0	75	K2213	M191	Quad Different Amplifier.
59	ECL2530	22	1.0M	MON	.15%	-.15*	3.2	1.32		0	75	K228	M117m	tpd 4.2 max;Zout 50Ω.
60	AT10	22	10M	PCB	2.0	0.0	0.0	8.0	2.5	5	71		CB37a	14 Cable Receiver;Ckt delay 20ns typ.
61	AT14	22	10M	PCB	4.0	0.0	0.0	25	2.4	5	71		CB37a	7 Cable Receiver.
62	AT15	22	10M	PCB	4.0	0.0	8.0	25	1.8	5	71		CB37a	18 Cable Receiver.
63	RA248	22	30M	3DM	2.6	.45	5.0	5.0	63m	-55	125		TO86	Tripple Line Receiver.
64	RA546	22	30M	3DM	2.6	.45	5.0	5.0	63m	0	75	K15275	TO84	Tripple Line Receiver.
65	RA1546	22	30M	3DM	2.6	.45	5.0	5.0	63m	0	75	K15275	M75e	TrippleLine Receiver.
66	RA1548	22	30M	3DM	2.6	.45	5.0	5.0	63m	0	75		TO116	Tripple Line Receiver.
67	G305	23	25k		-6.0	0.0	12	6.0						Voh-6.0V;Vol 0.0V;Toff 1.4usmax;Tr800nsmax
68	G205	23	500k		-6.0	0.0	12	6.0						Dual;Voh-6.0V;Vol 0.0V;Ton 400ns max.
69	G105A	23	10M		-6.0	0.0	12	6.0						Voh-6.0V;Vol 0.0V;Ton 30n max;Toff 40n max
70	MC1026L	23	50M	MON	-.75%	-1.6*	8.0	0.0	140m†	0	75	K15158	TO116	Dual driver; fan out 25. .
71	UD4024	24							400m	-55	125	K15201	FP26c	Buffer Amp. to drive the UD4001.
72	UD4037	24					30	30	400m	-55	125	K15201a	TO87	Buffer Amp. to drive the UD4036.
73	UHC037	24							400m	-55	125	K15201a	TO87	Buffer Amp. to drive UHC036.
74	D123F	24		MOH	.50	1.3	0.0	10	375m	-55	125	K15118	TO84	6-Channel FET Driver;Ton .250ns;Toff 1.0us
75	D125F	24		MOH	4.5	1.0	0.0	10	375m	-55	125	K15120	TO84	6-Channel FET Driver;Ton .250ns;Toff 500ns
76	D129L	24		MOH			0.0	5.0	750m	-55	125	K15192	TO86	4 channel FET;Ton 250ns Toff 800ns.
77	DG110F	24		MOH	.50	1.3	20	30	730m	-55	125	K15136	TO84	2 Channel FET Switch Driver.
78	DG110L	24		MOH	.50	1.3	20	30	730m	-55	125	K15136	TO86	2 Channel FET Switch Driver.
79	DG111F	24		MOH	4.5	1.0	20	30	730m	-55	125	K15137	TO84	2 Channel FET Switch Driver.
80	DG111L	24		MOH	4.5	1.0	20	30	730m	-55	125	K15137	TO86	2 Channel FET Switch Driver.
81	DG112F	24		MOH	.50	1.3	20	30	730m	-55	125	K15138	TO84	2 Channel FET Switch Driver.
82	DG112L	24		MOH	.50	1.3	20	30	730m	-55	125	K15138	TO86	2 Channel FET Switch Driver.
83	DG426L	24		MOH	1.3%	2.1*	0.0	12	750m	0	75	K15203	TO86	Dual DPST FET Switch Driver.
84	DG429L	24		MOH	1.3%	2.1*	0.0	12	750m	0	75	K15203	TO86	Dual DPST FET Switch Driver.
85	DG433L	24		MOH	1.3%	2.1*	0.0	12	750m	0	75	K178	TO86	Dual DPST FET Switch Driver.
86	DG434L	24		MOH	1.3%	2.1*	0.0	12	750m	0	75	K178	TO86	Dual DPST FET Switch Driver.
87	DG440L	24		MOH			18	12	750m	0	70	K15203	TO86	Dual DPST FET Switch Driver.
88	DG441L	24		MOH			18	12	750m	0	70	K178	TO86	Dual SPST FET Switch Driver.
89	D111F	24		MOS	.50	1.3	0.0	10	375m	-55	125	K15115	TO84	6-Channel FET Driver;Ton 150ns;Toff 1.7us.
90	D113F	24		MOS	.50	1.3	0.0	10	375m	-55	125	K15117	TO84	6-Channel FET Driver;Ton 150ns;Toff 1.2us.
91	D119F	24		MOS	.50	1.3	0.0	10	375m	-55	125	K15115	TO84	6-Channel FET Driver;Ton .250ns;Toff 800ns
92	D120F	24		MOS	4.5	1.0	0.0	10	375m	-55	125	K15116	TO84	6-Channel FET Driver;Ton .250ns;Toff 300ns
93	D121F	24		MOS	.50	1.3	0.0	10	375m	-55	125	K15117	TO84	6-Channel FET Driver;Ton .250ns;Toff 300ns
94	D130L	24	5.0M	MOS	1.4	.70	0.0	10	750m	-55	125	K15237	TO86	Dual FET Driver;Ton 150ns;Toff 150ns.
95	D131	24	5.0M	MOS	4.5	.50	30	5.0	750m	-55	125	K15238	ZB155	Dual FET Switch Driver.
96	MCH1002P	25		MOH	14%	†	0.0	15	1.0	-30	75	K253	M185	Voh 14V min;Io 1.0uA max.
97	MCH2890R	25		MOH	1.8	1.1	0.0	5.0	3.7	0	70	K2511	CN76	Dual Power Drive;IPDH 120mAdc.
98	MIHD42030	25		MOH	2.0%	.80*	0.0	5.0	1.2	-55	125	K2510	CN48p	Current Driver;tr and tf 50ns.
99	UD4181	25		MON	3.4%	.40*	0.0	5.0		0	70	K252	TO116	Quad Power Driver;Vo 40V;ton 55ns.
100	PHA2001-51	25		MOS	2.0%	.40*†	0.0	8.0	800m	-25	125	K1134	CN38	Io-250mA;Ton 160ns;Toff 220ns.
101	PHA2001-59	25		MOS	1.9%	.45*†	0.0	8.0	800m	0	75	K1134	CN38	Io-250mA;Ton 200ns;Toff 260ns.
102	PHA2002-51	25		MOS	2.0%	.40*†	0.0	8.0	800m	-55	125	K1134	CN38	Io-150mA;Ton 70ns;Toff 110ns.
103	PHA2002-59	25		MOS	1.9%	.45*†	0.0	8.0	800m	0	75	K1134	CN38	Io-150mA;Ton 70ns;Toff 110ns.
104	PHB2001-51	25		MOS	2.0%	.40*†	0.0	8.0	800m	-55	125	K1134	FP2c	Io-250mA;Ton 160ns;Toff 220ns.
105	PHB2001-59	25		MOS	1.9%	.45*†	0.0	8.0	800m	0	75	K1134	FP2c	Io-250mA;Ton 200ns;Toff 260ns.
106	PHB2002-51	25		MOS	2.0%	.40*†	0.0	8.0	800m	-55	125	K1134	FP2c	Io-150mA;Ton 70ns;Toff 110ns.
107	PHB2002-59	25		MOS	1.9%	.45*†	0.0	8.0	800m	0	75	K1134	FP2c	Io-150mA;Ton 70ns;Toff 110ns.
108	K85401	25		PCB	-3.0	0.0	24	12	5.0	-20	60		CB58	Logic Driver for 4 Coil Stepper Motors.
109	G304	25	25k		-6.0	0.0	12	0.0						Sextuple;Voh-6.0V;Vol 0.0V;Ton 100ns max.
110	RM55	26							450	-55	125		TO84	Diode Matrix 10 X 4; Trr -50ns.

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) MAX. OPERATING FREQ.
(3) PROCESS (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	2 MAX OPERATING FREQ. (Hz)	3 PROCESS	LOGIC LEVEL '1' (V)	LOGIC LEVEL '0' (V)	POWER SUPPLY SPAN NEG. (V)	POWER SUPPLY SPAN POS. (V)	MAX. TOTAL PKG. DISS. (W)	TEMP. LOW °C	TEMP. HI °C	DRAWINGS LOGIC DWG. No	DRAWINGS OUTLINE DWG. No Δ=MO	GENERAL DESCRIPTION
1	RM90	26							450	-55	125		TO84	Diode Matrix 4 X 10; Trr -10ns.
2	RM91	26							450	-55	125		TO84	Diode Matrix 4 X 10; Trr -25ns.
3	RM93	26							450	-55	125		TO84	Diode Matrix 10 X 4; Trr -50ns.
4	RM155	26							450	-55	125		TO116	Diode Matrix 10 X 4; Trr -50ns.
5	RM190	26							450	-55	125		TO116	Diode Matrix 4 X 10; Trr -10ns
6	RM191	26							450	-55	125		TO116	Diode Matrix 4 X 10; Trr -25ns.
7	RM193	26							450	-55	125		TO116	Diode Matrix 4 X 10; Trr -50ns.
8	TID21	26		DCM	60Ø							K261	TO89	8 Core driver; Trr20ns max at 200MA IR;IF.
9	TID22	26		DCM	40Ø							K261	TO89	8 Core Driver;Trr 20ns max at 200 MAIR,IF.
10	TID23	26		DCM	60Ø							K262	TO89	8 Core Driver;Trr20ns max at 200mA IR,IF.
11	TID24	26		DCM	40Ø							K262	TO89	8 Core Driver;Trr 20ns max at 200mA IR,IF.
12	TID25	26		DCM	60Ø							K263	TO89	16 Core Driver;Trr20ns max at 200mA IR,IF.
13	TID26	26		DCM	40Ø							K263	TO89	16 Core Driver;Trr20ns max at 200mA IR,IF.
14	TID29	26		DCM	60Ø							K264	TO84	20 Core Driver;Trr20ns max at 200mA IR,IF.
15	TID30	26		DCM	40Ø							K264	TO84	20 Core Driver;Trr20ns max at 200mA IR,TF.
16	RC217G	26		MON	15Ø					0	75		TO84	IF 30mA; IR 100nA max.
17	RC217Q	26		MON	15Ø					0	75		FP26b	IF 30mA;IR100nA max.
18	RC217T	26		MON	15Ø					0	75		TO101	IF 30mA;IR 100nA max.
19	RC227D	26		MON						0	75		M105k	
20	RC227G	26		MON						0	75		TO84	
21	RC227P	26		MON						0	75		M105m	
22	RM10	26		MON	60Ø				450m	-55	125	K15108j	TO84	Matrix;Trr 7ns at 10mA IF,IR;VF 1.5V max.
23	RM12	26		MON	60Ø				450m	-55	125	K15108j	TO84	Matrix;Trr 11ns at 10mA IF,IR;VF 1.7V max.
24	RM13	26		MON					450m	-55	125		TO84	Diode Matrix-5x8; Trr 50ns.
25	RM30	26		MON	60Ø				450m	-55	125	K15108i	TO84	Matrix;Trr 7ns at 10mA IF,IR:VF 1.5V max.
26	RM31	26		MON	60Ø				450m	-55	125	K15108i	TO84	Matrix;Trr 11ns at 10mA IF,IR;VF1.7Vmax.
27	RM34	26		MON					450m	-55	125		TO84	Diode Matrix-6x8; Trr 50ns.
28	RM44	26		MON					450m	-55	125		TO84	Diode Matrix-6x8; Trr 50ns.
29	RM74	26		MON					450m	-55	125		TO84	Diode Matrix-5x5; Trr 10ns.
30	RM77	26		MON					450m	-55	125		TO84	Diode Matrix-5x5; Trr 50ns.
31	RM110	26		MON					450m	-55	125		M75b	Diode Matrix-5x8; Trr 10ns.
32	RM113	26		MON						-55	125		M75b	Diode Matrix-5x8; Trr 50ns.
33	RM130	26		MON					450m	-55	125		M75b	Diode Matrix-6x8; Trr 10ns.
34	RM134	26		MON						-55	125		M75b	Diode Matrix-6x8; Trr 50ns.
35	RM144	26		MON						-55	125		M75b	Diode Matrix-6x8; Trr 50ns.
36	RM177	26		MON						-55	125		M75b	Diode Matrix-5x5; Trr 50ns.
37	RM217Q	26		MON	15Ø					-55	125	K265b	FP26e	And gate; Trr is 4.0ns max at 2.0mA IR,IF.
38	TID137N	26		MON	60Ø				600m	-65	125	K263q	M117	4 Quad-Diode Array.
39	TID138N	26		MON	40Ø				600m	-65	125	K263q	M117	4 Quad-Diode Array.
40	TIDM155W	26		MON	25Ø		0.0	5.0	400m	-65	150	K268	Δ004AA	5x5 Matrix;trr 10ns max at IF,IRM 10mA.
41	TIDM166W	26		MON	25Ø		0.0	5.0	400m	-65	150	K268a	Δ004AA	6x6 Matrix;trr 10ns max at IF,IRM 10mA.
42	TIDM168W	26		MON	25Ø		0.0	5.0	400m	-65	150	K268b	Δ004AA	6x8 Matrix;trr 10ns max at IF,IRM 10mA.
43	TIDM185W	26		MON	25Ø		0.0	5.0	400m	-65	150	K268c	Δ004AA	8x5 Matrix;trr 10ns max at IF,IRM 10mA.
44	TIDM186W	26		MON	25Ø		0.0	5.0	400m	-65	150	K268d	Δ004AA	8x6 Matrix;trr 10ns max at IF,IRM 10mA.
45	TIDM255W	26		MON	25Ø		0.0	5.0	400m	-65	150	K268	Δ004AA	5x5 Matrix;trr 25ns max at IF,IRM 10mA.
46	TIDM266W	26		MON	25Ø		0.0	5.0	400m	-65	150	K268a	Δ004AA	6x6 Matrix;trr 25ns max at IF,IRM 10mA.
47	TIDM268W	26		MON	25Ø		0.0	5.0	400m	-65	150	K268b	Δ004AA	6x8 Matrix;trr 25ns max at IF,IRM 10mA.
48	TIDM285W	26		MON	25Ø		0.0	5.0	400m	-65	150	K268c	Δ004AA	8x5 Matrix;trr 25ns max at IF,IRM 10mA.
49	TIDM286W	26		MON	25Ø		0.0	5.0	400m	-65	150	K268d	Δ004AA	8x6 Matrix;trr 25ns max at IF.IRM 10mA.
50	SCL4007D	27		MOS	10	0.0†	0.0	10	1.0u	-55	125	K15198	TO116	Dual Transistors plus inverter;F050.
51	SCL4007F	27		MOS	10	0.0†	0.0	10	1.0u	-55	125	K15198	TO86	Dual Transistors plus inverter;F050.
52	TSA3725	27	250M⧄						600m	-55	125	K271	M114e	Quad Core Driver;ton 35ns,toff 60ns max.
53	TSA3724	27	300M⧄						800m	-55	125		M114e	Quad Core Driver;BVCBO 50V;BVCOO 30V.
54	MHQ3725	27	325M⧄%	MOS					2.5	-55	200	K271	M157a	Quad Dual-In-Line memory driver.
55	MHQ5859	27	325M⧄%	MOS					2.5	-55	200	K271	M157a	Quad Dual-In-Line memory driver.

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

PART B

DISCONTINUED LINEAR INTEGRATED CIRCUITS

SYMBOLS & CODES EXPLAINED

IN TYPE No. CROSS INDEX AND TECHNICAL SECTIONS

FOLLOWING TYPE No.

⍁ △ % } Indicators of separate manufacturers producing same type number (non-JEDEC) whose characteristics are not the same. This manufacturer-identifying symbol (assigned by D.A.T.A.) is an integral part of the type number (in Type No. Cross Index, Technical Data Sections) to avoid the possibility of confusing the devices of one manufacturer with the devices of others.

# 1, # 2, ... Device has two or more modes of operation – listed on separate lines in the same technical section.

– RT ... Suffix indicates device is a replacement type; consult manufacturer

Note: Chip packages are recognizable by the prefix 'FC' in the drawing number

SYMBOLS & CODES COMMON TO MORE THAN ONE TECHNICAL SECTION

LINE No.

- ▼ – NEW TYPE
- ♦ – REVISED SPECIFICATION
- # – NON-JEDEC TYPE MANUFACTURED OUTSIDE U.S.A.

TYPE No.

- ▼ – CUSTOM CIRCUIT
- § – DEVICE HAS TWO OR MORE MODES OF OPERATION–LISTED IN SEPARATE TECHNICAL SECTIONS
- * – DEVICE CONTAINS TWO OR MORE IDENTICAL OR MATCHED CIRCUITS
- ∅ – DUAL COMPARATORS (SECT. 9 ONLY)
- † – PROGRAMMABLE OP-AMP. CHARACTERISTICS GIVEN FOR HIGHEST SPECIFIED BIAS CURRENT (SECT. 3 ONLY)
- $ – CHOPPER STABILIZED (SECT. 3 ONLY)

OPERATING TEMP. RANGE CODE

0–	0 up to 10°C
1–	10 up to 20°C
2–	20 up to 30°C
3–	30 up to 40°C
4–	40 up to 50°C
5–	50 up to 60°C
6–	60 up to 70°C
7–	70 up to 80°C
8–	80 up to 90°C
9–	90 up to 100°C
A–	100 up to 110°C
B–	110 up to 120°C
C–	120 up to 130°C
D–	130 up to 140°C
E–	140 up to 150°C
F–	150 up to 160°C
G–	160 up to 170°C
H–	170 up to 180°C
J–	180 up to 190°C
K–	190 up to 200°C
M–	200°C and ABOVE

$ BOTH VALUES OF TEMP. ARE POS. MAX. VALUE ONLY IS INDICATED.
EXAMPLES OF OPERATING TEMP. RANGE CODE:

5 C

5	C
MIN VALUE LIES BETWEEN —50° AND —60°C	MAX VALUE LIES BETWEEN +120°C AND +130°C

OR

$ 8

$	8
BOTH VALUES OF TEMP. ARE POS. MAX VALUE ONLY AS INDICATED.	MAX. VALUE LIES BETWEEN +80°C AND +90°C

OUTLINE DRAWINGS

CB–	PRINTED CIRCUIT COARD
CN–	CAN TYPE–NON JEDEC OUTLINE
FC–	FLAT PACK CHIP NON-JEDEC OUTLINE
FP–	FLAT PACK–NON-JEDEC OUTLINE
M–	MOUNTED ON A HEAT SINK
MP –	MOLDED OR ENCAPSULATED PACKAGE NOT INCLUDED IN OTHER CATEGORIES
TO–	OUTLINE IN ACCORDANCE WITH JEDEC REGISTRATION
OCT–	OCTAL PLUG-IN (NO DWG. SHOWN)
△ –	MO OUTLINE IN ACCORDANCE WITH JEDEC REGISTRATION
Z –	PACKAGE ONLY SHOWN

3. OPERATIONAL AMPLIFIERS & 4. DIFFERENTIAL AMPLIFIERS

PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR.@25°C		MIN TRANSFER CHAR @ 25°C			
		OVER OPERATING TEMP. RANGE				MIN.-@25°C							
		MAX VOLTAGE		MAX CURRENT									
1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	3 DRFT (V/°C)	4 OFST (V)	OFFSET (A)	BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)
♦—ONE OR MORE OF THE CHARACTERISTICS ARE NOT AT RATED SUPPLY VOLTAGE §—VALUE IS NOT SYMMETRICAL ABOUT ZERO	†—TYPICAL *—MINIMUM	†—TYPICAL §—25°C ⍁—OVER LIMITED TEMPERATURE RANGE	†—TYPICAL §—25°C △—ADJUSTABLE TO ZERO ⍁—OVER LIMITED TEMPERATURE RANGE	†—TYPICAL §—25°C ⍁—OVER LIMITED TEMPERATURE RANGE		†—TYPICAL —MAX. SAFE OPERATING RANGE §—VALUE IS NOT SYMMETRICAL ABOUT ZERO SE—SINGLE-ENDED INPUT	∅—SINGLE-ENDED INPUT IMPEDANCE †—TYPICAL $—COMMON MODE	†—TYPICAL	†—TYPICAL ∅—LOAD IMPEDANCE IN OHMS CORRESPONDING TO OUTPUT VOLTAGE SWING ♦ - NO LOAD	†—TYPICAL ∅—UNITY GAIN BW §—GAIN BW PRODUCT	†—TYPICAL	†—TYPICAL ∅—FULL POWER BW IN kHZ ⍁—FULL POWER BW IN MHZ	†—TYPICAL

5. AUDIO AMPLIFIERS

PWR SUP@25°C		TRANSFER CHARACTERISTICS @25°C						INPUT @25°C		OUTPUT CHAR. @25°C			
RATED SPECS		3dB BANDWDTH											
1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	3 MIN. UPPER (Hz)	MAX. LOWER (Hz)	4 MIN. VOLT. GAIN (dB)	MAX. NOISE FIGURE (dB)	MAX. THD (%)	ΔTEMP GAIN VAR. (dB)	MIN. RESIST (Ω)	MAX. VOLTS P-P (ΔV)	MAX. RESIST (Ω)	MIN. VOLT. P-P (ΔV)	MIN. POWER (W)	@ LOAD RES. (Ω)
♦—ONE OR MORE OF THE CHARACTERISTICS ARE NOT AT RATED SUPPLY VOLTAGE §—VALUE IS NOT SYMMETRICAL ABOUT ZERO	†—TYPICAL *—MINIMUM	$ – USEFUL FREQUENCY RANGE § – BANDWIDTH < 3db ∅ – FULL POWER BANDWIDTH % – UNITY GAIN BANDWIDTH – TYPICAL	†—TYPICAL	†—TYPICAL △—POWER GAIN %—CURRENT GAIN $—DIFFERENTIAL VOLTAGE GAIN *—OTHER VALUES OF GAIN AVAILABLE BY EXTERNAL CONNECTION	†—TYPICAL §—MAX. SIGNAL TO NOISE RATIO *—MAX. EQUIVALENT INPUT NOISE (uV rms) △—MAX. EQUIVALENT OUTPUT NOISE (mV rms) ∅—EQUIVALENT INPUT NOISE (dBm)	†—TYPICAL ♦—MEASURED AT LESS THAN RATED OUTPUT POWER	†—TYPICAL	†—TYPICAL △—DIFFERENTIAL INPUT	*—MINIMUM RANGE FOR LINEAR OUTPUT	†—TYPICAL △—DIFFERENTIAL OUTPUT	†—TYPICAL	†—TYPICAL %—OUTPUT CURRENT SWING (ΔmA) ♦—MEASURED AT HIGHER THAN RATED THD	

PART B

SYMBOLS & CODES EXPLAINED

SYMBOLS & CODES COMMON TO MORE THAN ONE TECHNICAL SECTION

LINE No.

▼ – NEW TYPE
♦ – REVISED SPECIFICATION
# – NON-JEDEC TYPE MANUFACTURED OUTSIDE U.S.A.

TYPE No.

▼ – CUSTOM CIRCUIT
§ – DEVICE HAS TWO OR MORE MODES OF OPERATION—LISTED IN SEPARATE TECHNICAL SECTIONS
* – DEVICE CONTAINS TWO OR MORE IDENTICAL OR MATCHED CIRCUITS
∅ – DUAL COMPARATORS (SECT. 9 ONLY)
† – PROGRAMMABLE OP-AMP. CHARACTERISTICS GIVEN FOR HIGHEST SPECIFIED BIAS CURRENT (SECT. 3 ONLY)
$ – CHOPPER STABILIZED (SECT. 3 ONLY)

OPERATING TEMP: RANGE CODE

0– 0 up to 10°C
1– 10 up to 20°C
2– 20 up to 30°C
3– 30 up to 40°C
4– 40 up to 50°C
5– 50 up to 60°C
6– 60 up to 70°C
7– 70 up to 80°C
8– 80 up to 90°C
9– 90 up to 100°C
A–100 up to 110°C
B–110 up to 120°C
C–120 up to 130°C
D–130 up to 140°C
E–140 up to 150°C
F–150 up to 160°C
G–160 up to 170°C
H–170 up to 180°C
J–180 up to 190°C
K–190 up to 200°C
M–200°C and ABOVE

$ BOTH VALUES OF TEMP. ARE POS. MAX. VALUE ONLY IS INDICATED.
EXAMPLES OF OPERATING TEMP. RANGE CODE:

5	C
MIN VALUE LIES BETWEEN —50° AND —60°C	MAX VALUE LIES BETWEEN +120°C AND +130°C

OR

$	8
BOTH VALUES OF TEMP. ARE POS. MAX VALUE ONLY AS INDICATED.	MAX. VALUE LIES BETWEEN +80°C AND +90°C

OUTLINE DRAWINGS

CB– PRINTED CIRCUIT COARD
CN– CAN TYPE– NON-JEDEC OUTLINE
FC– FLAT PACK CHIP NON-JEDEC OUTLINE
FP– FLAT PACK– NON-JEDEC OUTLINE
M– MOUNTED ON A HEAT SINK
MP – MOLDED OR ENCAPSULATED PACKAGE NOT INCLUDED IN OTHER CATEGORIES
TO– OUTLINE IN ACCORDANCE WITH JEDEC REGISTRATION
OCT– OCTAL PLUG-IN (NO DWG. SHOWN)
△ – MO OUTLINE IN ACCORDANCE WITH JEDEC REGISTRATION
⍁ – PACKAGE ONLY SHOWN

6. RF/IF AMPLIFIERS

PWR SUP@25°C RATED SPECS		MIN TRANSFER CHARACTERISTICS @25°C						INPUT CHAR @25°C			OUTPUT CHAR. @25°C		
1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	3 PWR GAIN @ 50Ω LOAD & SOURCE (dB)	SPEC FREQ (Hz)	4 UN-TUNED 3dB BW (Hz)	Y21 (mhos)	Y12 (mhos)	MAX. NF (dB)	MIN. VOLT. P-P (ΔV)	MAX. COND. (mhos)	MAX. CAP. (F)	MIN. VOLT. P-P (ΔV)	MIN. COND. (mhos)	MAX. CAP. (F)
♦—ONE OR MORE SPECS. ARE NOT AT RATED SUPPLY VOLTAGE §—VALUE IS NOT SYMMETRICAL ABOUT ZERO	†—TYPICAL *—MINIMUM	△—MAX AVAILABLE POWER GAIN *—VOLTAGE GAIN %—CURRENT GAIN §—AGC AVAILABLE †—TYPICAL ♦—LOAD OTHER THAN 50 OHM ∅—AGC THRESHOLD VS FREQ - uVrms		†—TYPICAL ♦—USABLE FREQUENCY RANGE	†—TYPICAL *—VOLTAGE GAIN IN dB	†—TYPICAL %—REVERSE TRANSFER CAPICITANCE IN pF ∅—REVERSE CURRENT TRANSFER RATIO (G12)	†—TYPICAL	†—TYPICAL △-ABSOLUTE SAFE MAX.	†—TYPICAL △-DIFFERENTIAL INPUT	†—TYPICAL	†—TYPICAL	†—TYPICAL △-DIFFERENTIAL OUTPUT	†—TYPICAL

7. WIDEBAND AMPLIFIERS

PWR SUP@25°C RATED SPECS		TRANSFER CHARACTERISTICS @25°C					INPUT CHAR. @25°C		OUTPUT CHAR. @25°C			TRANSIENT CHAR. @25°C	
		3dB BW										MAX TIME	
1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	3 MIN. UPPER (Hz)	MAX. LOWER (Hz)	4 MIN. VOLTAGE GAIN (dB)	MAX. NOISE FIGURE (dB)	MAX. THD (%)	MIN RESIST (Ω)	MAX P-P VOLTS (ΔV)	MAX. RESIST (Ω)	MIN. VOLT P-P (ΔV)	LOAD RESIST (Ω)	RISE (s)	DELAY (s)
♦—ONE OR MORE OF THE CHARACTERISTICS ARE NOT AT RATED SUPPLY VOLTAGE §—VALUE IS NOT SYMMETRICAL ABOUT ZERO	†—TYPICAL *—MINIMUM	†-TYPICAL ∅-FULL POWER BANDWIDTH §-FREQUENCY FOR MIN. GAIN	†—TYPICAL	†—TYPICAL △—POWER GAIN %—CURRENT GAIN $—DIFFERENTIAL VOLTAGE GAIN *—OTHER VALUES OF GAIN AVAILABLE BY EXTERNAL CONNECTION §-AGC AVAILABLE	†—TYPICAL §—MAX. SIGNAL TO NOISE RATIO *—MAX. EQUIVALENT INPUT NOISE (uV rms) △—MAX. EQUIVALENT OUTPUT NOISE (mV rms)	†—TYPICAL △—INTERMODULATION DISTORTION IN dB	†—TYPICAL △—DIFFERENTIAL INPUT	†—TYPICAL *—MINIMUM RANGE FOR LINEAR OUTPUT	†—TYPICAL △—DIFFERENTIAL OUTPUT AVAILABLE	†—TYPICAL △—OUTPUT POWER (mW)	♦ - NO LOAD	†—TYPICAL	†—TYPICAL

PART B

SYMBOLS & CODES EXPLAINED

SYMBOLS & CODES COMMON TO MORE THAN ONE TECHNICAL SECTION

LINE No.

- ▼ – NEW TYPE
- ♦ – REVISED SPECIFICATION
- # – NON-JEDEC TYPE MANUFACTURED OUTSIDE U.S.A.

TYPE No.

- ▼ – CUSTOM CIRCUIT
- § – DEVICE HAS TWO OR MORE MODES OF OPERATION—LISTED IN SEPARATE TECHNICAL SECTIONS
- * – DEVICE CONTAINS TWO OR MORE IDENTICAL OR MATCHED CIRCUITS
- ∅ – DUAL COMPARATORS (SECT. 9 ONLY)
- † – PROGRAMMABLE OP-AMP. CHARACTERISTICS GIVEN FOR HIGHEST SPECIFIED BIAS CURRENT (SECT. 3 ONLY)
- $ – CHOPPER STABILIZED (SECT. 3 ONLY)

OPERATING TEMP: RANGE CODE

Code	Range
0–	0 up to 10°C
1–	10 up to 20°C
2–	20 up to 30°C
3–	30 up to 40°C
4–	40 up to 50°C
5–	50 up to 60°C
6–	60 up to 70°C
7–	70 up to 80°C
8–	80 up to 90°C
9–	90 up to 100°C
A–	100 up to 110°C
B–	110 up to 120°C
C–	120 up to 130°C
D–	130 up to 140°C
E–	140 up to 150°C
F–	150 up to 160°C
G–	160 up to 170°C
H–	170 up to 180°C
J–	180 up to 190°C
K–	190 up to 200°C
M–	200°C and ABOVE

$ BOTH VALUES OF TEMP. ARE POS. MAX. VALUE ONLY IS INDICATED.

EXAMPLES OF OPERATING TEMP. RANGE CODE:

5 C

5	C
MIN VALUE LIES BETWEEN —50° AND —60°C	MAX VALUE LIES BETWEEN +120°C AND +130°C

OR

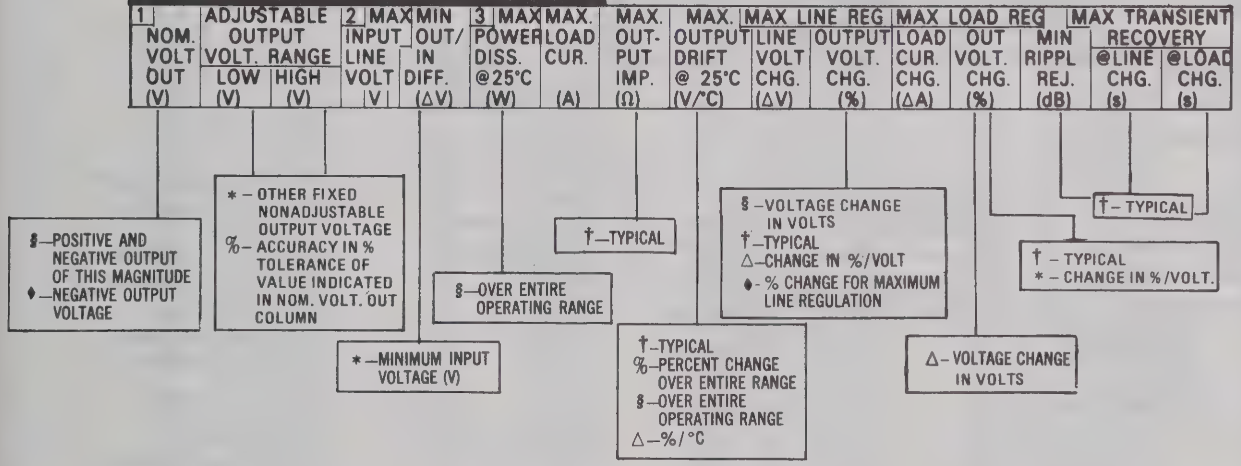
$ 8

$	8
BOTH VALUES OF TEMP. ARE POS. MAX VALUE ONLY AS INDICATED.	MAX. VALUE LIES BETWEEN +80°C AND +90°C

OUTLINE DRAWINGS

- CB– PRINTED CIRCUIT BOARD
- CN– CAN TYPE–NON-JEDEC OUTLINE
- FC– FLAT PACK CHIP NON-JEDEC OUTLINE
- FP– FLAT PACK–NON-JEDEC OUTLINE
- M– MOUNTED ON A HEAT SINK
- MP – MOLDED OR ENCAPSULATED PACKAGE NOT INCLUDED IN OTHER CATEGORIES
- TO– OUTLINE IN ACCORDANCE WITH JEDEC REGISTRATION
- OCT– OCTAL PLUG-IN (NO DWG. SHOWN)
- △ – NO OUTLINE IN ACCORDANCE WITH JEDEC REGISTRATION
- ▨ – PACKAGE ONLY SHOWN

8. VOLTAGE REGULATORS



1 NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE		2 MAX INPUT LINE VOLT (V)	MIN OUT/IN DIFF. (ΔV)	3 MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUT-PUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE REG		MAX LOAD REG		MIN RIPPL REJ. (dB)	MAX TRANSIENT RECOVERY	
	LOW (V)	HIGH (V)							LINE VOLT CHG. (ΔV)	OUTPUT VOLT. CHG. (%)	LOAD CUR. CHG. (ΔA)	OUT VOLT. CHG. (%)		@LINE CHG. (s)	@LOAD CHG. (s)

§—POSITIVE AND NEGATIVE OUTPUT OF THIS MAGNITUDE
♦—NEGATIVE OUTPUT VOLTAGE

* – OTHER FIXED NONADJUSTABLE OUTPUT VOLTAGE
%– ACCURACY IN % TOLERANCE OF VALUE INDICATED IN NOM. VOLT. OUT COLUMN

*—MINIMUM INPUT VOLTAGE (V)

§—OVER ENTIRE OPERATING RANGE

†—TYPICAL

†–TYPICAL
%–PERCENT CHANGE OVER ENTIRE RANGE
§–OVER ENTIRE OPERATING RANGE
△–%/°C

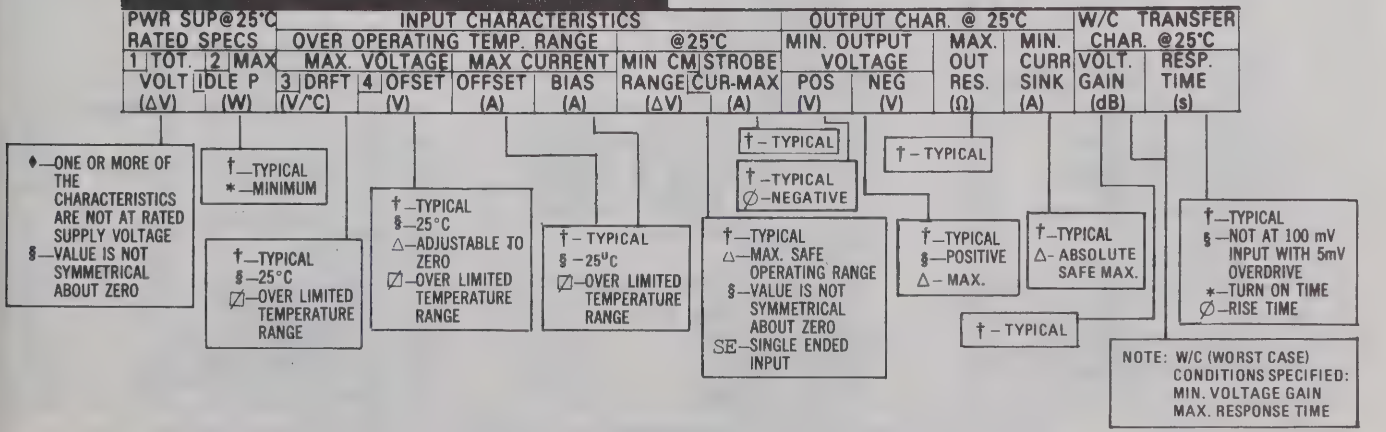
§ –VOLTAGE CHANGE IN VOLTS
†–TYPICAL
△–CHANGE IN %/VOLT
♦- % CHANGE FOR MAXIMUM LINE REGULATION

△– VOLTAGE CHANGE IN VOLTS

† – TYPICAL
* – CHANGE IN %/VOLT.

† – TYPICAL

9. VOLTAGE COMPARATORS



PWR SUP@25°C RATED SPECS		INPUT CHARACTERISTICS						OUTPUT CHAR. @ 25°C				W/C TRANSFER CHAR. @25°C	
		OVER OPERATING TEMP. RANGE				@25°C		MIN. OUTPUT VOLTAGE		MAX. OUT RES. (Ω)	MIN. CURR SINK (A)	VOLT. GAIN (dB)	RESP. TIME (s)
		MAX. VOLTAGE		MAX CURRENT									
1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	3 DRFT (V/°C)	4 OFSET (V)	OFFSET (A)	BIAS (A)	MIN CM RANGE (ΔV)	STROBE CUR-MAX (A)	POS (V)	NEG (V)				

♦—ONE OR MORE OF THE CHARACTERISTICS ARE NOT AT RATED SUPPLY VOLTAGE
§—VALUE IS NOT SYMMETRICAL ABOUT ZERO

†—TYPICAL
*—MINIMUM

†—TYPICAL
§—25°C
▨—OVER LIMITED TEMPERATURE RANGE

†—TYPICAL
§—25°C
△—ADJUSTABLE TO ZERO
▨—OVER LIMITED TEMPERATURE RANGE

† – TYPICAL
§ –25°C
▨—OVER LIMITED TEMPERATURE RANGE

†—TYPICAL
△—MAX. SAFE OPERATING RANGE
§—VALUE IS NOT SYMMETRICAL ABOUT ZERO
SE—SINGLE ENDED INPUT

† – TYPICAL

†–TYPICAL
∅–NEGATIVE

†—TYPICAL
§—POSITIVE
△ – MAX.

† – TYPICAL

†—TYPICAL
△- ABSOLUTE SAFE MAX.

† – TYPICAL

†—TYPICAL
§ —NOT AT 100 mV INPUT WITH 5mV OVERDRIVE
*—TURN ON TIME
∅—RISE TIME

NOTE: W/C (WORST CASE) CONDITIONS SPECIFIED:
MIN. VOLTAGE GAIN
MAX. RESPONSE TIME

PART B

SYMBOLS & CODES EXPLAINED

SYMBOLS & CODES COMMON TO MORE THAN ONE TECHNICAL SECTION

LINE No.

▼ – NEW TYPE
♦ – REVISED SPECIFICATION
– NON-JEDEC TYPE MANUFACTURED OUTSIDE U.S.A.

TYPE No.

▼ – CUSTOM CIRCUIT
§ – DEVICE HAS TWO OR MORE MODES OF OPERATION–LISTED IN SEPARATE TECHNICAL SECTIONS
* – DEVICE CONTAINS TWO OR MORE IDENTICAL OR MATCHED CIRCUITS
∅ – DUAL COMPARATORS (SECT. 9 ONLY)
† – PROGRAMMABLE OP-AMP. CHARACTERISTICS GIVEN FOR HIGHEST SPECIFIED BIAS CURRENT (SECT. 3 ONLY)
$ – CHOPPER STABILIZED (SECT. 3 ONLY)

OPERATING TEMP. RANGE CODE

0– 0 up to 10°C
1– 10 up to 20°C
2– 20 up to 30°C
3– 30 up to 40°C
4– 40 up to 50°C
5– 50 up to 60°C
6– 60 up to 70°C
7– 70 up to 80°C
8– 80 up to 90°C
9– 90 up to 100°C
A–100 up to 110°C
B–110 up to 120°C
C–120 up to 130°C
D–130 up to 140°C
E–140 up to 150°C
F–150 up to 160°C
G–160 up to 170°C
H–170 up to 180°C
J–180 up to 190°C
K–190 up to 200°C
M–200°C and ABOVE

$ BOTH VALUES OF TEMP. ARE POS. MAX. VALUE ONLY IS INDICATED. EXAMPLES OF OPERATING TEMP. RANGE CODE:

5 C

5	C
MIN VALUE LIES BETWEEN —50° AND —60°C	MAX VALUE LIES BETWEEN +120°C AND +130°C

OR

$ 8

$	8
BOTH VALUES OF TEMP. ARE POS. MAX VALUE ONLY AS INDICATED.	MAX. VALUE LIES BETWEEN +80°C AND +90°C

OUTLINE DRAWINGS

CB– PRINTED CIRCUIT COARD
CN– CAN TYPE– NON-JEDEC OUTLINE
FC– FLAT PACK CHIP NON-JEDEC OUTLINE
FP– FLAT PACK– NON-JEDEC OUTLINE
M– MOUNTED ON A HEAT SINK
MP – MOLDED OR ENCAPSULATED PACKAGE NOT INCLUDED IN OTHER CATEGORIES
TO– OUTLINE IN ACCORDANCE WITH JEDEC REGISTRATION
OCT– OCTAL PLUG-IN (NO DWG. SHOWN)
△ – MO OUTLINE IN ACCORDANCE WITH JEDEC REGISTRATION
⌶ – PACKAGE ONLY SHOWN

MISCELLANEOUS

10.

1 USE	PWR SUP @25°C RATED SPECS		MIN. INPUT CHAR. @25°C		OUTPUT CHAR. @25°C	
	2 TOT. VOLT. (ΔV)	3 MAX. IDLE P (W)	IMPED-ANCE (Ω)	VOLT RANGE (ΔV)	MAX. IMP. (Ω)	MIN VOLT RANGE (ΔV)

1. CURRENT AMPLIFIER
2. LOGARITHMIC AMPLIFIER
3. MULTIPLIER
4. SQUARING AMPLIFIER
5. FUNCTION GENERATOR
6. SIN/COS FUNCTION GENERATOR
7. SINE WAVE OSCILLATOR
8. DIVIDER
9. FREQ. TO DC CONVERTER
10. VOLTAGE CONTROLLED CRYSTAL OSCILLATORS
11. VOLT-TO FREQ. CONVERTER

12 thru 49 Reserved for future use.

♦—ONE OR MORE OF THE CHARACTERISTICS ARE NOT AT RATED SUPPLY VOLTAGE
§—VALUE IS NOT SYMMETRICAL ABOUT ZERO

†–TYPICAL
§–UNDER LOAD CONDITIONS

†—TYPICAL
*—MIN. IN CURRENT RANGE IN △mA

†—TYPICAL
*—MAX. OFFSET VOLTAGE (mV)
§–VALUE NOT SYMMETRICAL ABOUT ZERO
△–ABSOLUTE SAFE MAX
—- INDICATES ALL NEGATIVE RANGE

†—TYPICAL
*—MIN. OUT CURRENT RANGE IN △ mA
∅–LOAD IMPEDANCE IN OHMS

†–TYPICAL
§–VALUE IS NOT SYMMMETRICAL ABOUT ZERO
—- INDICATES ALL NEGATIVE RANGE

11.

① USE

50. AC TO DC POWER SUPPLY
51. DC TO AC POWER SUPPLY (INVERTER)
52. DC TO DC POWER SUPPLY
54. TRANSISTOR ARRAY
55. IDEAL DIODE
56. RING MODULATOR
57. LOGARITHMIC ELEMENTS
58. TEMP. CONTROLLED DIF. PAIR
59. SPECIAL FUNCTION SUB SYSTEM
60. DIODE ARRAY
61. GENERAL TRANSISTOR STAGE
62. PHASE CONTROL CIRCUIT
63. REFERENCE AMPLIFIERS & DIODES
64. TEMP. COMPENSATED VOLTAGE STABILIZERS
65. ANALOG ADDER/ SUMMING AMP.

GENERAL DESCRIPTION COMMON TO MISCELLANEOUS 10. &11.

⌀ – SELECTED RANGES AVAILABLE
△ —MAXIMUM
*—MINIMUM
†—TYPICAL
∅—ADJUSTABLE
#—OVER ENTIRE TEMPERATURE RANGE
§—VALUE IS NOT SYMMETRICAL ABOUT ZERO
F—FREQUENCY DEVIATION
△Ii—INPUT CURRENT RANGE
△Io—OUTPUT CURRENT RANGE
△Vi—INPUT VOLTAGE RANGE
△Vo—OUTPUT VOLTAGE RANGE
△Vs—POWER SUPPLY SPAN
1% BW—BAND WIDTH FOR 1% ACCURACY
Acc.—ACCURACY
Adj—ADJUSTABLE
Anlg.—ANTILOGARITHMIC FUNCTION
BVcbo—BREAKDOWN VOLTAGE, COLLECTOR-TO-BASE; EMITTER OPEN-CIRCUIT
BVceo—BREAKDOWN VOLTAGE, COLLECTOR-TO-EMMITTER; BASE OPEN-CIRCUIT
BVebo—BREAKDOWN VOLTAGE, EMMITTER-TO-BASE; COLLECTOR OPEN-CIRCUIT

BW 3dB—BANDWIDTH
Cd—CAPACITANCE
Darl—NUMBER OF DARLINGTON PAIRS
Dio—NUMBER OF DIODES
Dr—DRIFT WITH TIME
FP BW—FULL POWER BANDWIDTH
Freq.—OPERATING FREQUENCY
Ft—EXTRAPOLATED UNITY GAIN FREQUENCY (GAIN BANDWIDTH PRODUCT). PRODUCT OF THE COMMON-EMITTER CURRENT TRANSFER RATIO AND THE FREQUENCY OF MEASUREMENT AT A FREQUENCY WHERE THE CURRENT GAIN IS DECREASING AT THE RATE OF 6 dB PER OCTAVE. THIS FREQUENCY IS ALSO KNOWN AS THE TRANSITION FREQUENCY.
Gi—CURRENT GAIN
Gv—VOLTAGE GAIN
hFE—DC FORWARD CURRENT TRANSFER RATIO, COMMON EMITTER
Ic—COLLECTOR CURRENT, DC
I_f—FORWARD CURRENT
I o—OUTPUT CURRENT
I os—OFFSET CURRENT
I_r—REVERSE CURRENT
I_z—ZENER CURRENT
Lgrt.—LOGARITHMIC RATIO FUNCTION
Log.—LOGARITHMIC FUNCTION
Mod—MODULE HAS BOTH LOG AND ANTILOG FUNCTION

No—OUTPUT NOISE
Pd—TOTAL POWER DISSIPATION
PIV—PEAK INVERSE VOLTAGE
P o—POWER OUTPUT
Reg—LINE OR LOAD REGULATION — WHICHEVER IS WORSE CASE
RL—RATED LOAD
Rng—INPUT VOLTAGE RANGE IN dB
Ro—OUTPUT RESISTANCE
Rpl—RIPPLE
Seg—NUMBER OF LINE SEGMENTS
Sen—SENSITIVITY
Sl Rng--SLOPE RANGE
SR—SLEW RATE
TC—TEMPERATURE COEFFICIENT
trn—NUMBER OF TRANSISTORS
Trr—REVERSE RECOVERY TIME
Vbe—BASE-TO-EMITTER VOLTAGE, DC
Vcb—COLLECTOR-TO-BASE VOLTAGE, DC
Vce—COLLECTOR-TO-EMITTER VOLTAGE, DC
V_f—FORWARD VOLTAGE
V i—INPUT VOLTAGE
V o—OUTPUT VOLTAGE
V os—OFFSET VOLTAGE
V ref—REFERENCE VOLTAGE
Z z—ZENER IMPEDANCE

2. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
0-578C	♦DAD	12- 86
2LV1	TPN	7- 3
4JD13V	GESY	22- 18
		29- 49
007A	BAH	8-102
	♦DAD	
007B	BAH	8-103
	♦DAD	
007C	BAH	9- 3
	♦DAD	
007D1	BAH	12- 40
007E1	BAH	12- 47
008A3	BAH	9- 17
	DAD	
008A	BAH	9- 25
	DAD	
008B	BAH	9- 26
	DAD	
008C	BAH	9- 32
	DAD	
20-216A	BAH	21- 20
20-216B	BAH	21- 21
64B4	SESC	17- 8
64B4P	SESC	17- 9
71B4	SESC	17- 18
71B4P	SESC	17- 19
74B4	SESC	17- 20
74B4P1	SESC	17- 21
102#1	♦HBC	26- 4
102#2	♦HBC	26- 74
102A	ANA	14- 97
102B	ANA	14- 96
102C	ANA	14- 95
103A	ANA	14- 34
103B	ANA	14- 33
103C	ANA	14- 32
104#1	♦HBC	26- 5
104#2	♦HBC	26- 75
104OM	RTCF	20- 4
105	♦HBC	25- 69
105A	ANA	9- 88
105B	ANA	9- 87
105C	ANA	9- 86
106	ANA	14- 86
106B	ANA	13- 8
106C	ANA	13- 4
107	ANA	14- 87
107#1	♦HBC	25- 66
107#2	♦HBC	26- 73
107A	ANA	13- 12
107B	ANA	13- 9
107C	ANA	13- 5
107D1	BAH	12- 41
107E1	BAH	12- 48
109A1	♦BAH	12- 20
109A2	♦BAH	12- 24
109A	ANA	13- 13
109B1	♦BAH	12- 39
109B	ANA	13- 10
109C1	♦BAH	12- 45
109C	ANA	13- 6
109D1	♦BAH	12- 54
109E1	♦BAH	12- 57
110C	ANA	14- 70
111	ANA	9- 89
113	ANA	14-102
114A	ANA	10- 82
114B	ANA	10- 83
114C	ANA	10- 80
115	ZEL	9- 66
115A	ANA	11- 94
115B	ANA	11- 93
115C	ANA	11- 92
115E	ZEL	15- 74
116△	ANA	14- 90
116⍁	ZEL	9- 67
116BC	ZEL	11- 82
116C	ZEL	11- 63
116D	ZEL	9- 70
116K	ZEL	15- 21
117	ANA	14- 91
121	ANA	14- 98
126	♦ITH	18- 60
132	ZEL	10- 11
132A	ZEL	10- 12
132AC03	ZEL	12- 76
132AC	ZEL	12- 83
132AD	ZEL	10- 47
132AE	ZEL	15- 83
132D	ZEL	10- 48
133	ZEL	9- 72
133AC	ZEL	9- 73
134	ZEL	9- 31
134A	ZEL	9- 33
134D	♦ZEL	9- 34
140A	ANA	14- 64
140B△	ANA	14- 61
140B⍁	♦ZEL	16- 68
140BHV	♦ZEL	16- 71
141	♦ZEL	15- 84
141C⍁	ZEL	15- 85
141M25	ZEL	13- 89
142	♦ZEL	16- 69
142C⍁	ZEL	16- 70
143	♦ZEL	16- 48
143C⍁	ZEL	16- 49
145△	ANA	15- 87
145⍁	♦ZEL	13- 74
145D	♦ZEL	13- 76
145E	♦ZEL	15- 82
146OMY	RTCF	18- 36
147-04	♦ZEL	13- 45
147-10	♦ZEL	13- 55
147A⍁	♦ZEL	13-100
147E	♦ZEL	14- 1
147OMY	RTCF	20- 53
148OMY	RTCF	20- 13
150△	ANA	7- 5
150⍁	ZEL	13- 75
154C	ZEL	10- 49
155	ZEL	13- 99
155F	ZEL	16- 25
156	ZEL	9- 95
160	ANA	15- 76
161	♦ITH	18- 63
161△	ANA	15- 79
161⍁	ZEL	9- 68
165	ZEL	10- 50
170△	ANA	16- 66
170⍁	♦ZEL	7- 12
201	ANA	14-101
201-1	HBC	28- 88
201-2	HBC	28- 89
201-3	HBC	28- 90
202	ANA	14- 99
202-1	HBC	28- 91
202-2	HBC	28- 92
202-3	HBC	28- 93
203	ANA	14-100
203-1	HBC	28- 94
203-2	HBC	28- 95
203-3	HBC	28- 96
207	ANA	16- 67
207A1	♦BAH	12- 18
	♦DAD	
207A2	♦BAH	12- 19
	♦DAD	
207A3	♦DAD	8-100
207A4	♦DAD	8-101
207B1	♦BAH	12- 21
207B	♦DAD	8-104
207C1	♦BAH	12- 25
207C	♦DAD	9- 4
207D1	♦BAH	12- 42
207E1	♦BAH	12- 49
216A	BAH	21- 64
216B	BAH	21- 65
220	♦ZEL	24- 7
		29- 50
220B	ANA	14- 92
226A	BAH	21- 66
226B	BAH	21- 67
230A	ANA	13- 21
230B	ANA	13- 20
230C	ANA	9- 80
236	♦OEI	25- 60
238	BAH	14- 57
240	♦ZEL	17- 62
247D1	♦BAH	12- 43
247E1	♦BAH	12- 50
248C1	♦BAH	12- 55
248C2	♦BAH	12- 56
254A	♦OEI	25- 61
302	ANA	14- 80
302A	ANA	14- 84
302B	ANA	14- 82
303	ANA	14- 81
303A	ANA	14- 85
303B	ANA	14- 83
316-04	GECB	19- 36
326-01	GECB	17- 1
327-02	GECB	17- 11
350CP4	TMI	25-103
350MP4	TMI	25-104
350RP2	TMI	25-105
360	OPA	none
Repl.by 360M Cur.		
360B	OPA	none
Repl.by 360BM Cur.		
360P	OPA	none
Repl.by 360PM Obs.		
360PM	OPA	18- 72
380CP4	TMI	26- 10
380CP5	TMI	26- 11
380MP4	TMI	26- 12
384CP5	TMI	26- 20
404	♦ANA	16- 22
405	♦ANA	14- 94
406	♦ANA	15- 19
407	♦ANA	16- 21
408	♦ANA	14- 93
410%	♦ANA	15- 24
411	♦ANA	16- 11
411%	ANA	16- 12
412	♦ANA	16- 13
422	OPA	15- 88
425	OPA	15- 90
430	OPA	15- 91
		18- 71
435	OPA	16- 26
		18- 73
440	OPA	15- 92
501	BUB	28- 1
505	BUB	28- 2
510/25	♦BUB	28- 97
512	OEI	26- 29
512-513	♦OEI	26- 38
513	OEI	26- 30
516⍁	BUB	28- 3
519	♦OEI	25- 64
519A	OEI	25- 63
521	BUB	28- 4
521-522	♦OEI	26- 43
523-524	♦OEI	26- 44
530M	♦PHIN	none
Repl.by TAD100 Cur.		
547	♦OEI	26- 84
601△	BAH	21- 53
	DAD	
605⍁	♦ZEL	25- 78
702-1-3H	♦FSC	7- 49
♦GECB	SGSI	
702-1-5B	♦FSC	7- 50
♦GECB	SGSI	
702-1-36	GECB	7- 51
702-9-3H	FSC	7- 58
♦GECB	SGSI	
702-9-5B	FSC	7- 59
♦GECB	SGSI	
702-9-36	GECB	7- 60
703BE	TSC	19- 21
703CE	TSC	19- 22
709-1-36	GECB	10- 96
709-9-6E	GECB	11-105
709-9-36	GECB	11-106
709-11-3A	FSC	9- 36
GECB	SGSI	
709-11-36	GECB	9- 37
709B4	SESC	10- 97
709B4P	SESC	10- 98
709BN	TSC	10- 91
709CN	TSC	11-107
710-1-3H	♦FSC	23- 17
♦GECB	SGSI	
710-1-36	GECB	23- 18
710-9-6E	GECB	23- 27
710-9-36	GECB	23- 28
711-1-5F	♦FSC	23- 57
♦GECB	SGSI	
711-1-36	GECB	23- 58
711-9-5F	♦FSC	23- 71
♦GECB	SGSI	
711-9-36	GECB	23- 72
716-9-5B	FSC	18- 45
GECB	SGSI	
716-12-5K	FSC	18- 1
	SGSI	
717-9-8A	FSC	18- 4
	SGSI	19- 33
723BN	♦TSC	21- 97
723CN	♦TSC	21- 98
735-12-5B#1	FSC	7- 4
735-12-5B#2	FSC	7- 95
739CJ	TSC	13- 86
741-1-5B	GECB	8- 25
741-1-36	GECB	8- 26
741-9-5B	GECB	8- 50
741-9-6E	GECB	8- 51
741-9-36	GECB	8- 52
741-93-6E	♦FSC	8- 53
♦GECB	SGSI	
741BN	TSC	8- 27
741CN	TSC	8- 54
747BN	♦TSC	8- 28
747CN	♦TSC	8- 55
748BE	TSC	8- 84
748CE	TSC	8- 56
749BH	TSC	11- 33
749BN	TSC	11- 34
749CN	TSC	11- 35
756	♦KNA	15- 23
765	♦KNA	28- 5
766	KNA	28- 6
801A	ANA	14- 68
801B	ANA	14- 66
801S	ANA	14- 67
809BJ	♦TSC	10- 76
810BJ	TSC	10- 77
811BJ	♦TSC	10- 10
820	♦ZEL	10- 68
821⍁	OEI	28- 85
822⍁	OEI	28- 86
830	♦ZEL	10- 75
855	OEI	28- 7
856⍁	OEI	28- 8
857	OEI	28- 9
859⍁	OEI	28- 10
869	OEI	28- 11
870	OEI	28- 12
871	OEI	28- 13
872	OEI	28- 14
873	OEI	28- 15
885	♦OEI	28- 16
887	♦OEI	28- 17
888	♦OEI	28- 18
896	♦OEI	21- 16
897	♦OEI	21- 22
901△	♦ROA	15- 77
901%	ANA	28- 19
901BE	TSC	20- 62
901CE	TSC	20- 63
901E	ANA	28- 20
903BE	TSC	20- 64
903BR	TSC	20- 65
903CE	TSC	20- 66
903CR	TSC	20- 67
911BE	TSC	19- 38
911BJ	TSC	19- 39
911CE	TSC	19- 40
911CJ	TSC	19- 41
920	♦OPA	15- 89
		29- 51
920BE	TSC	20- 39
920CU	TSC	20- 40
956	OEI	20- 32
976	OEI	15- 93
980J	ANA	21- 27
980K	ANA	21- 28
1001	♦TPN	13- 94
1231WA	DAM	26- 86
1302	TPN	15- 22
1305A	♦BUB	10- 41
1306A	♦BUB	13- 47
1341	♦BUB	16- 35
1342	♦BUB	16- 54
1360B	♦BUB	17- 54
1405	♦TPN	14- 13
1406	♦TPN	14- 56
1451	♦ITH	18- 62
1452	♦ITH	18- 61
1503/15	♦BUB	13- 57
1504	BUB	13-101
1506/13	BUB	10- 18
1506/15	♦BUB	10- 19
1506/16	♦BUB	10- 20
1506/26	BUB	10- 21
1509/13	BUB	12- 30
1509/15	♦BUB	12- 31
1509/16	♦BUB	12- 32
1509/26	BUB	12- 33
1510-13	BUB	13-102
1510-16	♦BUB	13-103
1510-25	BUB	13-104
1510-26	♦BUB	13-105
1514/13	BUB	13- 48
1514/16	♦BUB	13- 49
1514/25	♦BUB	13- 50
1514/26	BUB	13- 51
1515-25	BUB	21- 55
1516/13	BUB	10- 71
1516/15	♦BUB	10- 72
1516/16	♦BUB	10- 73
1516/26	BUB	10- 74
1517/13	BUB	13- 58
1517/15	♦BUB	13- 59
1517/16	♦BUB	13- 60
1517/26	BUB	13- 61
1518	♦BUB	25- 28
1520-15	BUB	25- 18
1525/13	BUB	11- 44
1525/16	♦BUB	11- 45
1525/25	BUB	11- 46
1525/26	BUB	11- 47
1527/13	BUB	13- 95
1527/16	♦BUB	13- 96
1527/25	♦BUB	13- 97
1527/26	BUB	13- 98
1538A-13	BUB	12- 71
1538A-16	BUB	12- 72
1538A-25	BUB	12- 73
1538A-26	BUB	12- 74
1540/13	BUB	15-103
1540/15	♦BUB	15-104
1540/16	♦BUB	15-105
1540/26	BUB	15-106
1541/13	BUB	16- 36
1541/16	♦BUB	16- 37
1541/25	♦BUB	16- 38
1541/26	BUB	16- 39
1542/13	BUB	16- 55
1542/16	♦BUB	16- 56
1542/25	♦BUB	16- 57
1542/26	BUB	16- 58
1543/13	BUB	16- 1
1543/15	♦BUB	16- 2
1543/16	♦BUB	16- 3
1543/26	BUB	16- 4
1544/13	BUB	16- 31
1544/16	♦BUB	16- 32
1544/25	♦BUB	16- 33
1544/26	BUB	16- 34
1545/13	BUB	16- 50
1545/16	♦BUB	16- 51
1545/25	♦BUB	16- 52
1545/26	BUB	16- 53
1547/13	BUB	15-107
1547/15	♦BUB	15-108
1547/16	♦BUB	15-109
1547/26	BUB	15-110
1548-13	BUB	15-100
1548-16	♦BUB	15-101
1548-26	BUB	15-102
1549/13	BUB	15- 96
1549/15	♦BUB	15- 97
1549/16	♦BUB	15- 98
1549/26	BUB	15- 99
1552/15	♦BUB	12- 88
1552/16	♦BUB	12- 89
1554/13	BUB	12- 94
1554/15	♦BUB	12- 95
1554/16	♦BUB	12- 96
1554/26	BUB	12- 97
1555/13	BUB	13- 78
1555/16	♦BUB	13- 79
1555/26	BUB	13- 80
1556/13	BUB	12- 79
1556/15	♦BUB	12- 80
1556/16	♦BUB	12- 81
1556/26	BUB	12- 82
1557/15	♦BUB	12-100
1557/16	♦BUB	12-101
1560-13	BUB	14- 9
1560-16	♦BUB	14- 10
1560-25	♦BUB	14- 11
1560-26	BUB	14- 12
1615	MEL	10- 40
1618	MEL	12- 29
1626	MEL	14- 19
1630	MEL	13- 85
1643A-16	♦BUB	16- 41
1643A-26	BUB	16- 42
1644A-16	♦BUB	16- 62
1644A-26	BUB	16- 63
1650	MEL	10- 51
1681	MEL	12- 22
1701/17	♦BUB	11- 48
1706/17	♦BUB	10- 46
1719-17	BUB	25- 11
1752/17	♦BUB	11- 74
1901/19	♦BUB	10- 22
1902/19	♦BUB	13- 92
1952	BUB	12- 34
1953	♦BUB	12- 58
2101	♦TPN	21- 61
2105	♦TPN	21- 51
2216	♦OEI	25- 49
2245A	♦OEI	25- 55
2255A	♦OEI	29- 40
2268	♦OEI	25- 57
2277	♦OEI	25- 62
2369	♦OEI	25- 51
2391	OEI	25- 50
2397D	♦OEI	25- 48
2417	♦OEI	29- 41
2421	♦OEI	29- 42
2435	♦OEI	25- 56
2519	♦OEI	25- 54
2532	♦OEI	29- 43
2533	OEI	25- 58
2901A	♦BUB	13- 84
3001/13	BUB	7- 13
3001/15	♦BUB	7- 14
3001/16	♦BUB	7- 15
3001/26	BUB	7- 16
3002/13	BUB	7- 17
3002/15	♦BUB	7- 18
3002/16	♦BUB	7- 19
3002/26	BUB	7- 20
3003/13	BUB	9-101
3003/15	♦BUB	9-102
3003/16	♦BUB	9-103
3003/26	BUB	9-104
3004/13	BUB	9-108
3004/15	♦BUB	9-109
3004/16	♦BUB	9-110
3004/26	BUB	10- 1
3005/13	BUB	10- 23
3005/15	♦BUB	10- 24
3005/16	♦BUB	10- 25
3005/26	BUB	10- 26
3006/13	BUB	10- 54
3006/15	♦BUB	10- 55
3006/16	♦BUB	10- 56
3006/26	BUB	10- 57
3007/13	BUB	10- 6
3007/15C	♦BUB	10- 7
3007/16	♦BUB	10- 8
3007/26	BUB	10- 9
3008/13	BUB	10- 36
3008/15C	♦BUB	10- 37
3008/16	♦BUB	10- 38
3008/26	BUB	10- 39
3009/13	BUB	10- 64
3009/15C	♦BUB	10- 65
3009/16	♦BUB	10- 66
3009/26	BUB	10- 67
3010/13	BUB	13- 30
3010/16	♦BUB	13- 31
3010/25	♦BUB	13- 32
3010/26	BUB	13- 33
3011/13	BUB	13- 35
3011/16	♦BUB	13- 36
3011/25	♦BUB	13- 37
3011/26	BUB	13- 38
3012/13	BUB	13- 39
3012/16	♦BUB	13- 40
3012/25	♦BUB	13- 41
3012/26	BUB	13- 42
3013/13	BUB	12- 90
3013/15	♦BUB	12- 91
3013/16	♦BUB	12- 92
3013/26	BUB	12- 93
3014-13	BUB	11- 53
3014-15	BUB	11- 54
3014-16	♦BUB	11- 55
3014-26	BUB	11- 56
3015/13	BUB	11- 64
3015/15	BUB	11- 65
3015/16	♦BUB	11- 66
3015/26	BUB	11- 67
3016-25	BUB	25- 23
3017-25	BUB	25- 43
3018/13	BUB	10- 42
3018/15	♦BUB	10- 43
3018/16	♦BUB	10- 44
3018/26	BUB	10- 45
3019/13	BUB	10- 27
3019/15	♦BUB	10- 28
3019/16	♦BUB	10- 29
3019/26	BUB	10- 30
3020/13	BUB	10- 2
3020/15	♦BUB	10- 3
3020/16	♦BUB	10- 4
3020/26	BUB	10- 5
3021/13	BUB	10- 32
3021/15	♦BUB	10- 33
3021/16	♦BUB	10- 34
3021/26	BUB	10- 35
3022/13	BUB	10- 60
3022/15	♦BUB	10- 61
3022/16	♦BUB	10- 62
3022/26	BUB	10- 63
3034/17	♦BUB	11- 75
3038/25	BUB	16- 59
3042/16	BUB	16- 10
3043/15	BUB	13-110
3044/15	BUB	12- 23
3045/16	BUB	14- 44
3046/40	BUB	14- 45

D.A.T.A.

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK

△-Registered with JEDEC by this manufacturer

Obs-In this book

2. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
3049-15	BUB	14- 5	5616WB	DAM	27- 6	A3002	♦ITI	9- 7	EP25AU	TPN	9- 85	KM21	KME	11- 13
3058/01	BUB	7- 94	5627	♦OEI	25- 83	A3003	♦ITI	8-105	EP55AU	♦TPN	11- 5	KM21SP	KME	11- 68
3062/15	BUB	11- 42	5658WB	DAM	26- 85	AB01	♦VDM	7- 88	EP85AU	TPN	9- 60	KM22	KME	9- 64
3063/40	BUB	14- 22	5676WB	DAM	27- 7	AB01-10	VDM	7- 85	ESL1	TPN	14- 79	KM22SP	KME	17- 69
3064/12C	BUB	12-102	5748	♦OEI	26- 46	AB01-20	VDM	7- 86	F318A	♦BAH	15- 5	KM23	KME	10- 58
3064/15	♦BUB	12-103	5759	♦OEI	25- 65	AB01-30	VDM	7- 87	F318B	♦BAH	15- 6	KM23M	KME	10- 31
3065/15	♦BUB	10- 17	5805	♦OEI	26- 2	AB21	♦VDM	14- 17	F318C	♦BAH	15- 7	KM23SP	KME	17- 70
3068/17	BUB	11- 39	5822	♦OEI	26- 3	ATF402	APX	9- 78	FA201	♦INT	25- 14	KM24	KME	12-106
3069-49	BUB	25- 29	7100	♦OEI	24- 5	ATF403	APX	9- 79	FA202	♦INT	25- 15	KM25	KME	16- 45
3070/40	BUB	16- 9			30- 2	ATF406	APX	12- 26	FA203	♦INT	25- 16	KM26	KME	8- 1
3112/12C	BUB	12-108	8100	♦OEI	21- 39	ATF408	APX	12- 27	FA401	INT	9- 99	KM31	KME	11- 14
3114/12C	BUB	11- 37	8106	♦OEI	25- 17	B32	DAD	25- 4	FA501	INT	20- 83	KM31SP	KME	11- 69
3115/12C	BUB	11- 43	8217	♦OEI	21- 42	B34	DAD	25- 31			25- 33	KM32	KME	9- 65
3116/12C	BUB	11- 70	8218	♦OEI	21- 62	BA100	TPN	25- 24	FA601	♦INT	17- 63	KM33	KME	10- 59
3129/15	BUB	9-100	8220	♦OEI	21- 9	BA720	♦HIS	25- 39	FA601A	♦INT	17- 59	KM33SP	KME	10- 69
3130/15	BUB	10- 16	9110	OEI	25- 42	BML120	TPN	25- 38	FA602	♦INT	17- 61	KM34	KME	12-107
3138/25	BUB	16- 60	9118	OEI	20- 68	C45	DAD	13- 34	FSK8	TPN	14- 20	KM41	♦KME	10- 89
3144/15	BUB	9- 96	9125	OEI	8- 2	C46	DAD	14- 6	FSL5	TPN	13- 91	KM41SP	KME	16- 15
3145/15	BUB	9- 98	9130	OEI	13- 44	C100	♦INT	26- 42	FSL6	♦TPN	14- 78	KM42	♦KME	11- 11
3153-25	BUB	17- 55	9146	OEI	25- 27	C101	♦INT	26- 41	FSL18	TPN	14- 21	KM42L	♦KME	10- 90
3154-25	BUB	17- 56	9146A	♦OEI	25- 25	C800	♦TPN	25- 13	G106	♦EEC	20- 60	KM42M	KME	12- 99
3229/12C	BUB	14-105	9156	OEI	14- 46	CA45	DAD	7-102	G206	♦EEC	18- 28	KM42SP	KME	16- 14
3230/12C	BUB	14-106	9162	OEI	25- 26	CA3028	RCA	19- 10	GEL189F1	GESY	19- 13	KM43	♦KME	11- 12
3233-15	BUB	17- 67	9162A	♦OEI	25- 20	CA3031-702A	RCA	7- 52	GEL222F1	GESY	18- 52	KM43-70	KME	16- 43
3234-15	BUB	17- 68	9165	OEI	9- 77	CA3032-702C	RCA	7- 6	GEL223F1	GESY	7- 76	KM43H	KME	11- 19
3241/12C	BUB	11- 36	9186	OEI	14- 23	CA3056-741C	♦RCA	8- 57	GEL230F1	GESY	18- 20	KM43HSP	KME	16- 16
3243-25	BUB	17- 71	9186B	♦OEI	14- 27	CA3056A741	♦RCA	8- 29	GEL230F2	GESY	7- 68	KM43SP	KME	10- 70
3244-25	BUB	17- 72	9245	OEI	14- 24	CA3078	♦RCA	7- 11	GEL234F1	GESY	18- 50	KM45	♦KME	9- 62
3260/25	BUB	14- 8	9245A	♦OEI	14- 28	CCA3	TPN	14- 63	GEL237F1	GESY	18- 55	KM45H	♦KME	9- 63
3266/12C	BUB	13- 64	9263	OEI	13- 62	CDA3A	TPN	14- 69	GEL239F1	GESY	18- 39	KM47B	KME	10- 79
3267/12C	BUB	13- 65	9271	OEI	25- 21	CHA1	TPN	11- 49	GEL239F2	GESY	18- 26	KM47C	KME	12-109
3271/25	♦BUB	16- 64	9278	♦OEI	13- 63	CIA1	TPN	14- 65	GEL246F1	GESY	18- 69	KM48	♦KME	14- 14
3307/12C	BUB	13- 66	9300	♦OEI	7- 21	CIA2	♦TPN	10- 15	GEL246S1	GESY	18- 70	KM48A	♦KME	14- 7
3308/12C	BUB	13- 68	9302	♦OEI	12- 52	CMC100	♦TSC	21- 78	GEL263F1	GESY	18- 66	KM49	KME	13- 77
3312/12C	BUB	13- 67	9308	♦OEI	11- 41	CMC104	TSC	21-106	GEL263S1	GESY	18- 67	KM49A	KME	13- 81
3313/12C	BUB	13- 69	9314	♦OEI	11- 40	CMC105	♦TSC	22- 4	GEL264S1	GESY	21- 33	KM51	KME	10- 88
3345-14	BUB	17- 65	9380CP4	TMI	26- 13	CMC200	♦TSC	21- 72	GEL265S1	GESY	21- 83	KM51SP	KME	11- 32
3346-14	BUB	17- 66	9380CP5	TMI	26- 14	CMC205	♦TSC	22- 5	GEL266F1	GESY	18- 51	KM52	KME	9- 50
4007-40	BUB	25- 52	9380MP4	TMI	26- 15	CMC300	♦TSC	21- 71	GEL277S1	GESY	18- 68	KM53	KME	9- 97
4008-40	BUB	25- 53	9428	♦OEI	14- 25	CMC305	♦TSC	21- 84	GEL300F1	GESY	30- 4	KM53SP	KME	9- 90
4009	OPA	16- 30	9432	♦OEI	13- 43	CMC513	TSC	21- 58	GEL301F1	GESY	30- 5	KM54	KME	12- 75
4012-25	BUB	26- 16	9487	♦OEI	13- 90	CMC513-1	TSC	21- 56	GEL741D1	♦GESY	8- 58	KM55	KME	16- 44
4018-25	BUB	26- 51	9491	♦OEI	14- 18	CMC513-2	TSC	21- 59	GEL741D2	♦GESY	8- 30	KM56	KME	7-103
4029-25	BUB	26- 17	9524	♦OEI	14- 31	CMC513-3	TSC	21- 57	GEL741F1	♦GESY	8- 59	KM61	KME	11- 20
4030-25	BUB	26- 18	9570-100-117	TRA	28- 98	CMC513-4	TSC	21- 60	GEL1495	GESY	26- 22	KM62	KME	11- 21
4031-25	BUB	26- 6	9641-101	♦TRA	21- 70	CMC602	TSC	20- 33	GEL1496	GESY	29- 52	KM62SP	KME	10- 87
4062-45	BUB	26- 40	9646-101	♦TRA	28- 99	CMC602-1	♦TSC	20- 58	GEL1595	GESY	26- 23	KM71	KME	13- 18
4112-25	BUB	26- 19	9648-19	BUB	26- 31	CMC602-4	♦TSC	20- 59	GEL1596	GESY	29- 53	KM72	KME	13- 19
4118/25	BUB	26- 52	9671-19	BUB	26- 32	CMC723	TSC	21- 90	GEL1741AD	GESY	8- 60	L74H	none	none
5091WB	DAM	26- 87	9682	♦OEI	25- 30	CMC5000	♦TSC	21-107	GEL2111AL1	♦GESY	29- 54	Repl.by 174AA	Cur.	
5091WXA	DAM	26- 88	9684	♦OEI	9- 8	CMC5050	♦TSC	none	GEL2111F1	♦GESY	29- 55	L106	ANA	14- 88
5099WA	DAM	26- 89	9685	♦OEI	8-106	Repl.by 822BE	Cur.		GEL2113AL1	♦GESY	29- 56	L107	ANA	14- 89
5109A	♦OEI	26- 7	9686	♦OEI	14- 41	CMC5051	TSC	none	GEL2113F1	♦GESY	29- 57	L108	ANA	14- 62
5109C	♦OEI	26- 8	9687	♦OEI	14- 47	Repl.by 822CU	Cur.		GEL2117AL1	♦GESY	29- 58	L109A	ANA	13- 14
5114WA	DAM	26- 90	9688	♦OEI	13- 82	CMC5130	♦TSC	none	GEL2117F1	♦GESY	29- 59	L109B	ANA	13- 11
5120A	♦OEI	26- 72	9691	♦OEI	25- 32	Repl.by 824BE	Cur.		H9	DAD	13-106	L109C	ANA	13- 7
5130WA	DAM	26- 91	9692	♦OEI	13-108	CMC5131	♦TSC	none	H15	DAD	9- 61	L114A	ANA	10- 84
5130WB	DAM	26- 92	9693	OEI	25- 19	Repl.by 825CU	Cur.		H6030C	SOD	25- 8	L114B	ANA	10- 85
5174	♦OEI	27- 13	9694	♦OEI	12- 51	CMC5138	TSC	none	HA1-2600	HAS	9- 39	L114C	ANA	10- 81
5175	♦OEI	27- 14	9695	♦OEI	13- 93	Repl.by 826BE	Cur.		HA2-909A	HAS	8- 3	L120A	SIX	7- 38
5176	♦OEI	27- 15	9696	♦OEI	14- 15	CMC6020	♦TSC	none	HA9-909A	HAS	8- 5	L127T2	♦SGSI	17- 64
5179WXA	DAM	26- 93	9698	♦OEI	25- 44	Repl.by 920BE	Obs.		HA100	EGG	7- 65	L127T9	♦SGSI	17- 60
5182	♦OEI	26- 81	9706	♦OEI	14- 26	CMC6021	♦TSC	none	HA2110	HAS	15- 10	L161	ANA	15- 75
5183	♦OEI	26- 82	9708	OEI	25- 22	Repl.by 920CU	Obs.		HA2111	HAS	24- 2	L174	SIX	14-103
5184	♦OEI	26- 83	9709	♦OEI	8- 99	CO201	VEL	26- 60	HA2210	HAS	15- 11	L174L	♦SIX	none
5191B	♦OEI	26- 76	9710	♦OEI	9- 59	CO201-5	VEL	26- 53	HA2211	HAS	24- 3	Repl.by 174AL	Cur.	
5196A	♦OEI	26- 77	9711	♦OEI	13-109	CO202	VEL	26- 61	HA2310	HAS	15- 9	L474H	♦SIX	none
5198	♦OEI	26- 47	9722	♦OEI	14- 29	CO202-5	VEL	26- 54	HA2311	HAS	24- 4	Repl.by 174CA	Cur.	
5209WA	DAM	26- 94	9728	♦OEI	11- 91	CO203	VEL	26- 62	HAD130	♦EGG	29- 60	L474L	♦SIX	none
5209WB	DAM	26- 95	9776	♦OEI	14- 30	CO203-5	VEL	26- 55	HB15	DAD	9- 53	Repl.by 174CL	Cur.	
5213	♦OEI	27- 9	9806	OEI	14- 36	CO204	VEL	26- 63	HC15	DAD	9- 57	LA1	♦TPN	11- 51
5214	♦OEI	27- 10	9812	OEI	14- 42	CO204-5	VEL	26- 56	HK15	DAD	9- 71	LA100-M	♦NPC	21- 79
5215	♦OEI	27- 11	9874-19	BUB	26- 27	CO211	VEL	26- 64	HT58	♦XDS	16- 27	LA100G	NPC	21- 80
5216	♦OEI	27- 12	9875-19	BUB	26- 28	CO212	VEL	26- 65	HT72	♦XDS	14- 49	LA101-M	♦NPC	15- 43
5217	♦OEI	26- 45	9876	OEI	14- 43	CO213	VEL	26- 66	HT73	♦XDS	23- 7	LA101G	♦NPC	15- 44
5217A	♦OEI	26- 33	11604	ZEL	9- 54	CO214	VEL	26- 67	HZ15	DAD	9- 76	LA103	♦NPC	29- 61
5223	♦OEI	26- 48	13203	ZEL	9-107	CO215	VEL	26- 68	IC28-700C	♦EFM	28-100	LA105G	♦NPC	22- 6
5228WA	DAM	26- 96	13215	ZEL	10- 13	CO216	VEL	26- 69	IC28-700F	♦EFM	28-101	LA170	♦NPC	29- 62
5229A	♦OEI	25- 88	13303	ZEL	9- 51	CO217	VEL	26- 70	IC28-700J	♦EFM	28-102	LA200-M	♦NPC	21- 73
5229C	OEI	25- 89	13304	ZEL	9- 55	CO233	♦VEL	26- 59	IC28-700R	♦EFM	28-103	LA200F	NPC	21- 74
5233	♦OEI	23-110	14508	♦ZEL	13- 73	CO251	VEL	26- 57	IC28BPC	♦EFM	28-104	LA200G	♦NPC	21- 75
5244WA	DAM	26- 97	14704	♦ZEL	13- 46	CO251-1	VEL	26- 58	IC28BPF	♦EFM	28-105	LA201-M	♦NPC	15- 45
5245	♦OEI	27- 8	14710	♦ZEL	13- 56	CQA22	TPN	15- 70	IC28BPJ	♦EFM	28-106	LA201F	♦NPC	15- 46
5249-5250	♦OEI	26- 39	16103	ZEL	9- 52	CTS870	♦CMI	21- 15	IC28BPR	♦EFM	28-107	LA201G	♦NPC	15- 47
5249A	♦OEI	26- 34	16104	♦ZEL	9- 56	CTS878	♦CMI	22- 29	IC1018C	♦EFM	28-108	LA205F	♦NPC	22- 7
5256WXA	DAM	26- 98	16110	ZEL	9- 69	CTS879	♦CMI	22- 25	IC1018F	♦EFM	28-109	LA205G	♦NPC	22- 8
5265WA	DAM	26- 99	16204	ZEL	10- 14	D13V	♦GESY	22- 19	IC1018J	♦EFM	28-110	LA270	♦NPC	29- 63
5270WA	DAM	26-100	16210	♦ZEL	10- 53	D4075	♦EEC	28- 87	IC1018R	♦EFM	29- 1	LA300-M	♦NPC	21- 30
5280WA	DAM	26-101	A24	MEL	18- 56	DA1a	♦TPN	11- 50	IC2240C	♦EFM	29- 2	LA300F	NPC	21- 31
5285WA	DAM	26-102	A40	MEL	18- 57	DC702D	DAD	17- 27	IC2240F	♦EFM	29- 3	LA300G	♦NPC	21- 32
5312WXA	DAM	26-103	A140	♦ITI	14- 58	DC702F	DAD	17- 28	IC2240J	♦EFM	29- 4	LA302	♦NPC	25- 12
5323A	♦OEI	25- 79	A149A	♦INT	14- 4	DC702T	DAD	17- 29	IC2240R	♦EFM	29- 5	LA305F	♦NPC	22- 9
5337	♦OEI	26- 80	A149B	♦INT	14- 3	DC709D	DAD	12- 10	ICL8008CDA	INL	8- 86	LA305G	♦NPC	22- 10
5359WA	DAM	26-104	A150	♦ITI	7- 2	DC709F	DAD	12- 11	ICL8017CTZ	♦INL	12- 87	LA370	♦NPC	29- 64
5372A	♦OEI	24- 10	A151	♦ITI	7- 1	DC709T	DAD	12- 12	ICL8017MTZ	♦INL	12- 28	LA703	NPC	19- 23
5378	♦OEI	24- 1	A190	♦ITI	25- 2	DC710F	DAD	23- 52	J10-3	VAD	21- 5	LA703C	NPC	19- 24
5385	♦OEI	24- 8	A191	♦ITI	25- 3	DC710H	DAD	23- 53	J10-5	VAD	21- 13	LA709-M	♦NPC	7- 93
5391	♦OEI	25- 80	A215	ITI	7- 35	DC711	DAD	23- 10	J10-6	VAD	21- 17	LA709C-M	♦NPC	11- 99
5395WYA	DAM	26-105	A501	♦INT	14- 37	DL21	TPN	15- 80	J11	VAD	21- 18	LA709CF	NPC	11-100
5461WC	DAM	26-106			20- 79	DM702D	DAD	17- 24	J20-9	VAD	21- 24	LA709CG	NPC	11-101
5469WA	DAM	26-107	A501M	♦INT	14- 38	DM702F	DAD	17- 25	J20-10	VAD	21- 29	LA709G	NPC	10-102
5472WA	DAM	26-108			20- 80	DM702T	DAD	17- 26	J20-12	VAD	21- 43	LA710AG	NPC	23- 47
5485	♦OEI	25- 68	A502	♦INT	14- 39	DM709D	DAD	10- 99	J20-15	VAD	21- 68	LA710CF	NPC	23- 45
5500	♦OEI	26- 21			20- 81	DM709F	DAD	10-100	J20-18	VAD	21- 87	LA710CG	NPC	23- 48
5501	♦OEI	24- 6	A502M	♦INT	14- 40	DM709T	DAD	10-101	J20-21	VAD	21-109	LA711Δ	♦NPC	23- 9
5507	♦OEI	25- 70			20- 82	DM710F	DAD	23- 49	J21	VAD	22- 20	LFT1	TPN	14- 72
5515WXA	DAM	26-109	A510A	♦INT	13- 88	DM710H	DAD	23- 50	J30-20	VAD	21-104	LGR6	TPN	25- 59
5520WA	DAM	26-110	A510B	♦INT	13- 87	DM711	DAD	23- 11	J30-24	VAD	22- 15	LM101A	♦NSC	15- 56
5524WA	DAM	27- 1	A701#2	♦ITI	26- 78	DVR100A	DIC	21- 40	J30-28	VAD	22- 24	LM107	♦NSC	15- 57
5533WXA	DAM	27- 2	A702#2	♦ITI	26- 79	DVR100B	DIC	21- 41	J30-32	VAD	22- 27	LM201	DAD	15- 69
5548WXA	DAM	27- 3	A1019	♦ITI	9- 75	DZ15	DAD	13- 72	J31	VAD	22- 21	LM201A	♦NSC	15- 62
5559WA	DAM	27- 4	A1029	♦ITI	9- 74	DZ19	DAD	13- 1	JFT2	TPN	12-104	LM204	♦NSC	21-108
5600	♦OEI	26- 9	A3000	♦ITI	9- 5	DZ21B	DAD	13- 2	JFT2A	TPN	12- 84	LM206	♦NSC	23- 96
5607WB	DAM	27- 5	A3001	♦ITI	9- 6	DZ25	DAD	12- 53	JFT2B	TPN	12- 77	LM207	♦NSC	15- 63

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.
Cur-In current D.A.T.A.BOOK
Obs-In this book
Δ-Registered with JEDEC by this manufacturer

2. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
LM300	♦NSC	21- 76	MIC0102	♦MAL	18- 48	PA424	♦GESY	none	Q101A	♦TPN	13- 22	RC112D	RTN	none
LM301A	♦NSC	9- 27	MIC0103H	MAL	18- 2	Repl.by GEL300F1 Obs.			Q102	♦TPN	13- 25	Repl.by LM312D Cur.		
LM302	NSC	11- 9	MIC0103M	MAL	18- 3	PA436	♦GESY	none	Q102A	♦TPN	13- 23	RC112T	RTN	none
LM306	♦NSC	23- 97	MIC0106	♦MAL	18- 49	Repl.by GEL301F1 Obs.			Q103	♦TPN	14- 60	Repl.by LM312H Cur.		
LM307	♦NSC	9- 28	MIC0201D	MAL	18- 37	PA7600	PHIL	19- 3	Q103A	♦TPN	14- 59	RC116AD	RTN	none
LM703	NSC	19- 15	MIC0201M	MAL	18- 38			20- 11	Q200A	TPN	14- 48	Repl.by LM316AD Cur		
LM703C	NSC	19- 16	MIC0203	♦MAL	18- 44	PA7601	PHIL	19- 29	QA1	♦TPN	11- 52	RC116AT	RTN	none
LM703E	NSC	19- 17	MIC5840	♦MOTA	20- 78	PA7602	PHIL	18- 21	QFT12	TPN	12-105	Repl.by LM316AH Cur		
LM709AF	NSC	15- 8	MLF100	TPN	16- 61	PA7605	PHIL	17- 4	QFT12A	TPN	12- 85	RC116D	RTN	none
LM709CF	NSC	11- 98	MN210	♦MNC	21- 47			20- 24	QFT12B	TPN	12- 78	Repl.by LM316D Cur.		
LM709F	NSC	10-103	MPD5-150	♦ANA	28- 21	PA7605-39	♦PHIL	17- 6	R15	DAD	21- 52	RC116T	RTN	none
LM710AF	NSC	23- 44	MPD15-300	ANA	28- 22			20- 30			28- 39	Repl.by LM316H Cur.		
LM710CF	♦NSC	23- 46	MRD6039D	♦MOTA	29-110	PA7606	PHIL	17- 5	R101	♦INT	26- 36	RC118D	RTN	none
LM711AF	NSC	23- 59	MRD6039T	♦MOTA	29- 24			20- 25	R101M	♦INT	26- 37	Repl.by LM318D Cur.		
LM711CF	NSC	23- 70	MS101	♦MIS	13- 16	PA7703-39	PHIL	19- 27	RA238	HAS	15- 38	RC118T	RTN	none
M8	DAD	11- 97	MS201	♦MIS	13- 17	PA7703-49	PHIL	19- 28	RA240	HAS	15- 39	Repl.by LM318H Cur.		
M15	DAD	13- 71	MS723	MIS	21- 91	PA7709-31	PHIL	10- 92	RA338	HAS	15- 40	RC702AQ	RTN	7- 56
M301	♦INT	25-106	MS741X	♦MIS	13- 15	PA7709-39	PHIL	12- 5	RA340	HAS	15- 41	RC702CQ	♦RTN	7- 66
M301M	♦INT	25-107	MT103-2.4	♦TADI	30- 6	PA7710-31	PHIL	23- 19	RA909	HAS	8- 7	RC702CT	♦RTN	7- 67
M302	♦INT	25-108	MT103-2.7	♦TADI	30- 7	PA7710-39	♦PHIL	23- 30	RA909A	HAS	8- 6	RC709CD	♦RTN	15- 12
M302M	♦INT	25-109	MT103-3.0	♦TADI	30- 8	PA7711-31	PHIL	23- 60	RA911	HAS	8- 9	RC709CQ	♦RTN	15- 13
M303	♦INT	25-110	MT103-3.3	♦TADI	30- 9	PA7711-39	♦PHIL	23- 61	RA2500-1	HAS	11- 71	RC709CT	♦RTN	15- 14
M303M	♦INT	26- 1	MT103-3.6	♦TADI	30- 10	PA7712-31	PHIL	17- 33	RA2500-2	HAS	11- 57	RC711CD	♦RTN	23-105
M310	INT	25- 90	MT103-3.9	♦TADI	30- 11			20- 72	RA2500-5	HAS	11- 58	RC711CQ	♦RTN	23-106
M310M	INT	25- 91	MT103-4.3	♦TADI	30- 12	PA7712-39	PHIL	17- 30	RA2501-1	HAS	11- 83	RC711CT	♦RTN	23-107
M311	INT	25- 92	MT103-4.7	♦TADI	30- 13			20- 69	RA2501-2	HAS	11- 84	RC741CD	♦RTN	8- 67
M311M	INT	25- 93	MT103-5.1	♦TADI	30- 14	PA7713	PHIL	19- 1	RA2505-2	HAS	11- 76	RC741CQ	♦RTN	8- 68
M316	♦GECB	19- 37	MT103-5.6	♦TADI	30- 15			20- 2	RA2505-5	HAS	11- 77	RC741CT	♦RTN	8- 69
M326	GECB	17- 3	MT106	♦TADI	23- 98	PA7741-31	♦PHIL	8- 21	RA2510-1	HAS	11- 72	RC1101ACD	♦RTN	8- 93
M327	GECB	17- 12	MT106-883	♦TADI	23- 99	PA7741-39	PHIL	8- 64	RA2510-2	HAS	11- 59	RC1101ACQ	♦RTN	8- 94
M401	INT	25- 81	MT110	♦TADI	25- 35	PA7741C39	♦PHIL	8- 31	RA2510-5	HAS	11- 60	RC1101ACT	♦RTN	8- 95
M410	♦INT	25- 76	MT170	♦TADI	30- 45	PA7751-39	PHIL	7- 7	RA2511-1	HAS	11- 85	RC1514D	RTN	23- 85
M410M	♦INT	25- 77	MT172	♦TADI	30- 41	PC210H	GIC	15- 15	RA2511-2	HAS	11- 86	RC1514DP	RTN	23- 86
M415	♦INT	25- 71	MT206	♦TADI	23-101	PC212H	GIC	15- 4	RA2515-2	HAS	11- 78	RC1556AD	RTN	7-108
M415M	♦INT	25- 72	MT210	♦TADI	25- 36	PC250	GIC	7- 69	RA2515-5	HAS	11- 79	RC1556ADN	RTN	7-109
M416	♦INT	25- 73	MT270	♦TADI	30- 46	PC251	GIC	7- 70	RA2520-1	HAS	11- 73	RC1556AT	RTN	7-110
M416M	♦INT	25- 74	MT272	♦TADI	30- 42	PC511H	GIC	21- 34	RA2520-2	HAS	11- 61	RC4101AD	♦RTN	9- 22
M420	♦INT	25- 67	MT306	♦TADI	23-100	PC513H	GIC	21- 35	RA2520-5	HAS	11- 62	RC4101AQ	♦RTN	9- 23
M425	INT	25- 75	MT370	♦TADI	30- 47	PD7709-31	PHIL	10- 93	RA2521-1	HAS	11- 87	RC4101AT	♦RTN	9- 24
M501	♦INT	25- 99	MT373	♦TADI	30- 43	PD7709-39	PHIL	12- 6	RA2521-2	HAS	11- 88	RC4101CD	♦RTN	8-110
M501M	♦INT	25-100	NE501GΔ	SPR	20- 5	PD7710-31	PHIL	23- 20	RA2525-2	HAS	11- 80	RC4101CQ	♦RTN	9- 1
M502	♦INT	25-101	NE501KΔ	SPR	20- 6	PD7710-39	PHIL	23- 31	RA2525-5	HAS	11- 81	RC4101CT	♦RTN	9- 2
M502M	♦INT	25-102	NE517A	SIC	11-102	PD7711-31	PHIL	23- 62	RA2600-1	HAS	9- 43	RC4101D	RTN	9- 12
M505	INT	25- 84	NE517Q	SIC	11-103	PD7711-39	PHIL	23- 63	RA2600-2	HAS	9- 40	RC4101Q	RTN	9- 13
M505M	INT	25- 85	NE518GΔ	SPR	23- 2	PD7712-31	PHIL	17- 34	RA2600-5	HAS	9- 41	RC4101T	RTN	9- 14
M506	INT	25- 86	NE518KΔ	SPR	23- 3			20- 73	RA2601-1	HAS	9- 47	RC4131CD	♦RTN	7-105
M506M	INT	25- 87	NE530A	SIC	8- 89	PD7712-39	PHIL	17- 31	RA2601-2	HAS	9- 48	RC4131CQ	♦RTN	7-106
M510	INT	25- 94	NE530G	SIC	8- 62			20- 70	RA2605-2	HAS	9- 44	RC4131CT	♦RTN	7-107
M601	♦INT	25- 95	NE530T	SIC	8- 63	PD7741-31	PHIL	8- 32	RA2605-5	HAS	9- 45	RC4443C	RTN	23- 93
M601M	♦INT	25- 96	NPS30A	TPN	28- 23	PD7741-39	PHIL	8- 65	RA2620-5	HAS	9- 42	RC4443CD	♦RTN	23-108
M602	♦INT	25- 97	NRAM1000	♦BNT	30- 16	PD7741C39	♦PHIL	8- 33	RA2625-5	HAS	9- 46	RC4443CJ	♦RTN	23-109
M602M	♦INT	25- 98	NRAM1100	♦BNT	30- 17	PF55AU	♦TPN	11- 7	RA2909	HAS	8- 8	RC4443D	RTN	23- 94
M5102AY	MITJ	18- 40	NRAM1200	♦BNT	30- 18	PH5203	PHIL	21- 85	RA2909A	HAS	8- 4	RC4443J	RTN	23- 95
M5102Y	MITJ	18- 41	NRAM2000	♦BNT	30- 19	PL1N	TPN	29- 45	RA2911	HAS	8- 10	RC4709C	♦RTN	12- 65
M5103P	MITJ	29- 65	NRAM2100	♦BNT	30- 20	PL1P	TPN	29- 46	RC101ACD	♦RTN	8- 90	RC4709J	RTN	12- 69
M5105P	MITJ	29- 66	NRAM2200	♦BNT	30- 21	PL7600	PHIL	19- 4	RC101ACQ	♦RTN	8- 91	RC4709T	RTN	12- 70
M5110P#1	MITJ	18- 65	NRAM3000	♦BNT	30- 22			20- 12	RC101ACT	♦RTN	8- 92	RC4741C	♦RTN	15- 68
M5110P#2	MITJ	18- 64	NRAM3100	♦BNT	30- 23	PL7601	PHIL	19- 30	RC101AD	RTN	none	RC4741D	RTN	11- 24
M5111P#1	MITJ	18- 29	NRAM3200	♦BNT	30- 24	PL7602	PHIL	18- 22	Repl.by LM301AD Cur			RC4741J	♦RTN	11- 25
M5111P#2	MITJ	18- 30	NS7529	NSC	18- 6	PL7605-39	♦PHIL	17- 7	RC101ADN	RTN	none	RM101AD	♦RTN	none
M5113P	MITJ	20- 28	NS7560	NSC	13- 28			20- 31	Repl.by LM301AN Cur			Repl.by LM101AD Cur		
M5113T	MITJ	20- 29	NS7560A	NSC	15- 65	PL7709-31	PHIL	10- 94	RC101AQ	RTN	none	RM101AQ	♦RTN	none
M5116P	MITJ	18- 10	OA30	HIS	14- 35	PL7709-39	PHIL	12- 7	Repl.by LM301AF Cur.			Repl.by LM101AF Cur.		
M5121P	MITJ	29- 44	OA303	QUM	14- 16	PL7710-31	PHIL	23- 21	RC101AT	RTN	none	RM101AT	♦RTN	none
M5122Y	MITJ	18- 74	OA330	HIS	15- 86	PL7710-39	PHIL	23- 32	Repl.by LM301AH Cur			Repl.by LM101AH Cur		
M5126T	MITJ	23- 1	OSPB50-50	TPN	25- 45	PL7711-31	PHIL	23- 64	RC101CD	♦RTN	9- 9	RM101CD	RTN	15- 48
M5142P	MITJ	18- 27	OSPB100-10	TPN	25- 46	PL7711-39	PHIL	23- 65	RC101CQ	♦RTN	9- 10	RM101CF	RTN	15- 49
		19- 34	P5	TPN	25- 9	PL7712-31	PHIL	17- 35	RC101CT	♦RTN	9- 11	RM101CT	RTN	15- 50
M5181P	MITJ	29- 67	P25A	♦TPN	9- 82			20- 74	RC101D	RTN	none	RM101D	RTN	none
M5199Y	MITJ	21- 81	P25AU	TPN	10- 78	PL7712-39	PHIL	17- 32	Repl.by LM301D Cur.			Repl.by LM101D Cur.		
M51710T	MITJ	23- 29	P25C	TPN	9- 83			20- 71	RC101DN	RTN	none	RM101F	RTN	15- 51
M51711T	MITJ	23- 73	P45AU	TPN	9- 81	PL7713	PHIL	19- 2	Repl.by LM301N Cur.			RM101Q	RTN	none
MB326	♦GECB	17- 2	P65AH	TPN	11- 15			20- 3	RC101Q	RTN	none	Repl.by LM101F Cur.		
MC8	DAD	11- 96	P65AHU	TPN	11- 6	PL7741-31	PHIL	8- 34	Repl.by LM301F Cur.			RM101T	RTN	none
MC15	DAD	13- 70	P65C	TPN	11- 16	PL7741-39	PHIL	8- 66	RC101T	RTN	none	Repl.by LM101H Cur.		
MC1110G	MOTA	19- 9	P65CH	TPN	11- 17	PL7751-39	PHIL	7- 8	Repl.by LM301H Cur.			RM102T	♦RTN	25- 34
MC1302P	MOTA	18- 16	P65CQ	TPN	7- 99	PM430	CPR	28- 24	RC102C	♦RTN	25- 37	RM104Q	RTN	none
MC1304L	♦MOTA	29- 68	P65Q	TPN	7-100	PM438	CPR	28- 25	RC102T	♦RTN	25- 1	Repl.by LM104F Cur.		
MC1304PQ	♦MOTA	29- 69	P66A	TPN	25- 5	PM439	CPR	28- 26	RC104T	RTN	none	RM104T	RTN	none
MC1305L	♦MOTA	29- 70	PA189	GESY	none	PM456	CPR	28- 27	Repl.by LM304H Cur.			Repl.by LM104H Cur.		
MC1305PQ	♦MOTA	29- 71	Repl.by GEL189F1 Obs.			PM529	CPR	28- 28	RC105AT	RTN	none	RM105Q	RTN	none
MC1316P	♦MOTA	18- 47	PA222	GESY	none	PM530	CPR	28- 29	Repl.by LM305AH Cur			Repl.by LM105F Cur.		
MC1325L	♦MOTA	29- 72	Repl.by GEL222F1 Obs.			PM538	CPR	28- 30	RC105T	RTN	none	RM105T	RTN	none
MC1325P	♦MOTA	29- 73	PA223	GESY	none	PM539	CPR	28- 31	Repl.by LM305H Cur.			Repl.by LM105H Cur.		
MC1429G	MOTA	17- 37	Repl.by GEL223F1 Obs.			PM556	CPR	28- 32	RC106T	RTN	none	RM106Q	RTN	none
MC1435P	MOTA	7- 28	PA230	♦GESY	none	PM603	♦ARL	16- 28	Repl.by LM306H Cur.			Repl.by LM106F Cur.		
MC1467G	♦MOTA	21- 45	Repl.by GEL230F1 Obs.			PM630	CPR	28- 33	RC107D	RTN	none	RM106T	RTN	none
MC1467R	♦MOTA	21- 46	PA234	♦GESY	none	PM638	CPR	28- 34	Repl.by LM307D Cur.			Repl.by LM106H Cur.		
MC1509F	♦MOTA	20- 45	Repl.by GEL234F1 Obs.			PM639	CPR	28- 35	RC107DN	RTN	none	RM107D	RTN	none
MC1510F	♦MOTA	20- 46	PA237	GESY	none	PM656	CPR	28- 36	Repl.by LM307N Cur.			Repl.by LM107D Cur.		
MC1519G	MOTA	17- 47	Repl.by GEL237F1 Obs.			PM6040	♦ARL	16- 23	RC107Q	RTN	none	RM107Q	RTN	none
MC1524G	MOTA	18- 19	PA238	GESY	none	PP25C	TPN	9- 84	Repl.by LM307F Cur.			Repl.by LM107F Cur.		
MC1525G	MOTA	17- 40	Repl.by GEL230F2 Obs.			PP65AH	TPN	11- 38	RC107T	RTN	none	RM107T	RTN	none
MC1526G	MOTA	17- 39	PA239	♦GESY	none	PP65C	TPN	11- 18	Repl.by LM307H Cur.			Repl.by LM107H Cur.		
MC1529G	MOTA	17- 38	Repl.by GEL239F1 Obs.			PP65Q	TPN	7-101	RC108AD	RTN	none	RM108AD	RTN	none
MC1567G	♦MOTA	21- 48	PA246	♦GESY	none	PP66	TPN	25- 6	Repl.by LM308AD Cur			Repl.by LM108AD Cur		
MC1567R	♦MOTA	21- 49	Repl.by GEL246S1 Obs.			PP66A	TPN	25- 7	RC108AT	RTN	none	RM108AQ	RTN	none
MC1709CP	♦MOTA	12- 4	PA257	GESY	none	PP85A	♦TPN	9- 49	Repl.by LM308AH Cur			Repl.by LM108AF Cur.		
MC1712CP	MOTA	17- 23	Repl.by GEL2111F1 Obs.			PPL1N	TPN	29- 47	RC108D	RTN	none	RM108AT	RTN	none
MC1741CP	♦MOTA	8- 61	PA258	GESY	none	PPL1P	TPN	29- 37	Repl.by LM308D Cur.			Repl.by LM108AH Cur		
MCH1439G	♦MOTA	12- 3	Repl.by GEL2113F1 Obs.			PRAM1000	♦BNT	30- 25	RC108Q	RTN	none	RM108D	RTN	none
MCH1539G	♦MOTA	9-105	PA259	GESY	none	PRAM1100	♦BNT	30- 26	Repl.by LM308F Cur.			Repl.by LM108D Cur.		
MCH2870CR	♦MOTA	14- 2	Repl.by GEL2117F1 Obs.			PRAM1200	♦BNT	30- 27	RC108T	RTN	none	RM108Q	RTN	none
MCH2870MR	♦MOTA	13- 83	PA263	♦GESY	none	PRAM2000	♦BNT	30- 28	Repl.by LM308H Cur.			Repl.by LM108F Cur.		
MFC4000P	♦MOTA	18- 14	Repl.by GEL263S1 Obs.			PRAM2100	♦BNT	30- 29	RC109LK	RTN	none	RM108T	RTN	none
MFC4010	MOTA	20- 9	PA264	♦GESY	none	PRAM2200	♦BNT	30- 30	Repl.by LM309K Cur.			Repl.by LM108H Cur.		
MFC4010P	♦MOTA	20- 10	Repl.by GEL264S1 Obs.			PRAM3000	♦BNT	30- 31	RC109T	RTN	none	RM109LK	RTN	none
MFC6000	♦MOTA	18- 12	PA265	♦GESY	none	PRAM3100	♦BNT	30- 32	Repl.by LM309H Cur.			Repl.by LM109K Cur.		
MFC9000	♦MOTA	18- 46	Repl.by GEL265S1 Obs.			PRAM3200	♦BNT	30- 33	RC111D	RTN	none	RM109T	RTN	none
MFC9010	♦MOTA	18- 42	PA266	GESY	none	PS21	♦KME	28- 37	Repl.by LM311D Cur.			Repl.by LM109H Cur.		
MH1A709	DIC	10- 86	Repl.by GEL266F1 Obs.			PS22	♦KME	28- 38	RC111Q	RTN	none	RM111D	RTN	none
MH1A741	DIC	8- 20	PA277	GESY	none	Q82AH	TPN	14- 71	Repl.by LM311F Cur.			Repl.by LM111D Cur.		
MIC0101D	MAL	18- 23	Repl.by GEL277S1 Obs.			Q85AH	♦TPN	12- 44	RC111T	RTN	none	RM111Q	RTN	none
MIC0101M	MAL	18- 24				Q101	♦TPN	13- 24	Repl.by LM311H Cur.			Repl.by LM111F Cur.		

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK

Δ-Registered with JEDEC by this manufacturer

Obs-In this book

2. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
RM111T	RTN	none
Repl.by LM111H Cur.		
RM112D	RTN	none
Repl.by LM112D Cur.		
RM112Q	RTN	none
Repl.by LM112F Cur.		
RM112T	RTN	none
Repl.by LM112H Cur.		
RM116AD	RTN	none
Repl.by LM116AD Cur		
RM116AT	RTN	none
Repl.by LM116AH Cur		
RM116D	RTN	none
Repl.by LM116D Cur.		
RM116Q	RTN	none
Repl.by LM116F Cur.		
RM118D	RTN	none
Repl.by LM118D Cur.		
RM118Q	RTN	none
Repl.by LM118F Cur.		
RM118T	RTN	none
Repl.by LM118H Cur.		
RM183G	♦RTN	18- 9
		29- 74
RM702AD	RTN	7- 57
RM702F	RTN	7- 53
RM702Q	RTN	7- 54
RM702T	RTN	7- 55
RM703	RTN	19- 20
RM709	RTN	10-104
RM709BD	RTN	11-108
RM709BQ	RTN	11-109
RM709BT	RTN	11-110
RM710BD	♦RTN	23- 33
RM710BQ	♦RTN	23- 34
RM710BT	♦RTN	23- 35
RM710CD	♦RTN	23-102
RM710CQ	♦RTN	23-103
RM710CT	♦RTN	23-104
RM711	RTN	23- 12
RM711AQ	RTN	23- 16
RM711BD	♦RTN	23- 54
RM711BQ	♦RTN	23- 55
RM711BT	♦RTN	23- 56
RM1101AD	♦RTN	8- 96
RM1101AQ	♦RTN	8- 97
RM1101AT	♦RTN	8- 98
RM4101AD	♦RTN	9- 18
RM4101AQ	♦RTN	9- 19
RM4101AT	♦RTN	9- 20
RM4101CD	RTN	15- 52
RM4101CF	RTN	15- 53
RM4101CT	RTN	15- 54
RM4101D	RTN	8-107
RM4101F	RTN	15- 55
RM4101Q	RTN	8-108
RM4101T	RTN	8-109
RM4441J	♦RTN	24- 9
		29- 75
RM4443	RTN	23- 90
RM4443D	♦RTN	23- 91
RM4443J	♦RTN	23- 92
RM4709	♦RTN	12- 64
RM4709A	RTN	12- 66
RM4709AD	♦RTN	12- 59
RM4709AJ	♦RTN	12- 62
RM4709AT	♦RTN	12- 63
RM4709C	♦RTN	12- 68
RM4709D	RTN	12- 67
RM4709J	RTN	12- 60
RM4709T	RTN	12- 61
RM4741D	♦RTN	11- 22
RM4741J	♦RTN	11- 23
S52	♦TPN	11- 89
SA1	TPN	14- 75
SA2	TPN	14- 73
SA3	♦TPN	12- 35
SA3A	TPN	14- 74
SA10A	TPN	13- 52
SA20	SYL	20- 77
SA21	SYL	20- 76
SA24	♦TPN	15- 78
SA25	TPN	16- 24
SA50	♦TPN	16- 40
SA60	TPN	16- 46
SA60A	TPN	16- 47
SA1300	♦TRA	16- 29
SAL111	RTCF	23- 81
SD3	♦TPN	12- 36
SD5	TPN	13- 26
SE501GΔ	SPR	20- 7
SE501KΔ	SPR	20- 8
SE517Q	SIC	11-104
SE518GΔ	SPR	23- 4
SE518KΔ	SPR	23- 5
SE530A	SIC	8- 35
SE530G	SIC	8- 36
SE530T	SIC	8- 37
SE565A	♦SIC	29- 76
SF10A	TPN	13- 53
SFC2001	THCF	29- 38
SFC2100	THCF	none
Repl.by SFC2100M Cur.		
SFC2101	none	none
Repl.by SFC2101M Cur.		
SFC2101M	THCF	15- 66
SFC2102	♦THCF	7- 92
		25- 10
SFC2102M	THCF	11- 4
SFC2106M	♦THCF	23- 13
SFC2201	THCF	15- 67
SFC2202	♦THCF	11- 8
SFC2206	♦THCF	23- 14
SFC2302	♦THCF	11- 10
SFC2306	♦THCF	23- 15
SFC2430	THCF	7- 39
SFC2430E	THCF	7- 40
SFC2430F	NPC	7- 26
SFC2430G	NPC	7- 27
SFC2431	THCF	7- 41
SFC2510	THCF	20- 41
SFC2510F	NPC	20- 47
SFC2510G	NPC	20- 48
SFC2510M	♦THCF	20- 52
SFC2510P	THCF	20- 42
SFC2510PF	NPC	20- 49
SFC2510PG	NPC	20- 50
SFC2510PM	THCF	20- 43
SFC2510PMF	♦NPC	20- 51
SFC2524EC	THCF	24- 11
SFC2525	THCF	17- 41
SFC2525EC	THCF	23- 6
SFC2525F	NPC	17- 16
SFC2525G	NPC	17- 17
SFC2525M	THCF	17- 42
SFC2530	THCF	7- 43
SFC2530F	NPC	7- 22
SFC2530G	NPC	7- 23
SFC2531	THCF	7- 44
SFC2531F	NPC	7- 24
SFC2531G	NPC	7- 25
SFC2709E	THCF	8- 11
SFC2709P	THCF	8- 12
SG100N	♦SGL	21- 77
SG101	INT	26- 49
SG101M	INT	26- 50
SG105N	♦SGL	22- 3
SG118AT	SGL	15- 27
SG118T	SGL	15- 25
SG207N	SGL	15- 64
SG218AT	SGL	15- 28
SG218T	SGL	15- 26
SG318AT	SGL	15- 29
SG318T	SGL	14-107
SG710BN	♦SGL	23- 26
SG710BT	♦SGL	23- 36
SG710N	SGL	23- 22
SG711BN	♦SGL	23- 41
SG711BT	♦SGL	23- 43
SG711N	SGL	23- 66
SG723N	♦SGL	21- 89
SG733N	♦SGL	20- 54
SG741N	SGL	8- 38
SG747CN	SGL	8- 70
SG1495D	SGL	26- 24
SG1496G	SGL	29- 77
SG1496L	SGL	29- 78
SG1596G	SGL	29- 79
SG1596L	SGL	29- 80
SG1831J	SGL	29- 25
SG1832J	SGL	29- 26
SG2831J	SGL	29- 27
SG2832J	SGL	29- 28
SG3831J	SGL	29- 29
SG3832J	SGL	29- 30
SH720	♦HIS	25- 40
SH725	♦HIS	25- 41
SI3052A	SAKJ	21- 7
SI3052B	♦SAKJ	28- 40
SI3052C	SAKJ	21- 8
SI3121A	SAKJ	21- 38
SI3241A	SAKJ	22- 17
SI3241B	SAKJ	22- 11
SI3500M	SAKJ	21- 82
SI4001	SAKJ	20- 1
SI4120A	SAKJ	22- 33
SI5100A	SAKJ	14- 52
SI5100B	SAKJ	14- 53
SI5200A	SAKJ	15- 94
SI5200B	SAKJ	15- 95
SK3	♦TPN	12- 37
SK10A	TPN	13- 54
SL6	TPN	14- 77
SL7A	TPN	14- 76
SL20#1	PLSB	20- 14
SL20#2	PLSB	20- 17
SL21	PLSB	20- 18
SL22	PLSB	20- 19
SL23	PLSB	20- 15
SL24	PLSB	20- 16
SL26	♦TPN	15- 81
SL201B#1	♦PLSB	20- 21
SL201B#2	♦PLSB	20- 23
SL201C#1	♦PLSB	20- 20
SL201C#2	♦PLSB	20- 22
SL402A	♦PLSB	18- 34
SL403A	♦PLSB	18- 35
SL435C	♦PLSB	30- 39
SL436B	♦PLSB	30- 40
SL610G	PLSB	19- 6
SL611G	PLSB	19- 7
SL612G	PLSB	19- 5
SL620G	PLSB	29- 81
SL621G	PLSB	29- 82
SL630G	PLSB	18- 25
		29- 83
SL640G	PLSB	29- 84
SL641G	PLSB	29- 85
SL701B	PLSB	7- 78
SL701C	PLSB	7- 81
SL702B	PLSB	7- 79
SL702C	PLSB	7- 82
SL703A	♦PLSB	7- 32
SL703B	♦PLSB	7- 29
SL704A/F	♦PLSB	7- 33
SL704A/T	♦PLSB	7- 34
SL704B/F	♦PLSB	7- 30
SL704B/T	♦PLSB	7- 31
SL751B	PLSB	7- 80
SL751C	PLSB	7- 83
SM25-6	INT	28- 41
SM25-12	INT	28- 42
SM25-15	INT	28- 43
SM50-18	INT	28- 44
SM50-24	INT	28- 45
SM60-12	INT	28- 46
SM60-15	INT	28- 47
SM75-12	INT	28- 48
SM75-15	INT	28- 49
SM100-12	INT	28- 50
SM100-15	INT	28- 51
SM100-18	INT	28- 52
SM100-24	INT	28- 53
SM200-12	INT	28- 54
SM200-15	INT	28- 55
SM500-5	INT	28- 56
SM1000-5	INT	28- 57
SN524A	TII	7- 71
	TIIB	
SN524AL	TII	7- 72
	♦TIIB	
SN525	TII	none
	♦TIIB	
Repl.by SN525F Obs.		
SN525F	TII	17- 43
SN526	TII	none
	♦TIIB	
Repl.by SN526F Obs.		
SN526F	TII	17- 46
SN724	TII	none
	♦TIIB	
Repl.by SN724F Obs.		
SN724F	TII	7- 73
SN724L	TII	7- 74
	♦TIIB	
SN724N	TII	7- 75
SN725	TII	none
	TIIB	
Repl.by SN725F Obs.		
SN725F	TII	17- 44
SN726	TII	none
	TIIB	
Repl.by SN726F Obs.		
SN726F	TII	17- 45
SN5510	TII	none
	♦TIIB	
Repl.by SN5510F Cur.		
SN5511	TII	17- 10
		20- 44
SN7510	TII	none
	TIIB	
Repl.by SN7510F Cur.		
SN52702	none	none
Repl.by SN52702F Cur.		
SN52709	♦TIIB	14- 54
SN52710	♦TIIB	23- 51
SN56502	♦TII	25- 47
	♦TIIB	
SN56514	♦TII	29- 86
	♦TIIB	
SN72709	♦TIIB	14- 55
SN72710	♦TIIB	23- 8
SP25BUF	TPN	12-110
SP102	TPN	16- 65
SPH0070	♦SIL	21- 1
SPH0071	♦SIL	21- 2
SPH0130	♦SIL	29- 87
SPH0131	♦SIL	29- 88
SPH0140	♦SIL	21- 3
SPH0141	♦SIL	21- 4
SQ2	♦TPN	12- 98
SQ3	♦TPN	12- 38
SQ5	TPN	13- 27
T52	♦TPN	11- 90
TA1100	♦TRA	17- 57
TAA101	RTCF	29- 39
TAA182	PHIN	7- 64
TAA191	PHIN	13-107
TAA201	PHIN	17- 15
TAA202	PHIN	17- 13
TAA231	MULB	20- 36
	PHIN	
TAA232	MULB	20- 37
	PHIN	
TAA242Δ	RTCF	17- 22
TAA243	♦APX	7- 62
♦MULB	♦PHIN	
	RTCF	
TAA380	♦APX	30- 44
♦PHIN	RTCF	
TAA380A	APX	19- 8
	♦PHIN	
TAA445	♦VALG	7- 42
TAA470	APX	29- 89
	RTCF	
TAA500	RTCF	18- 5
TAA530	APX	29- 31
	RTCF	
TAA611A	♦SGSI	18- 31
TAA611B	♦SGSI	18- 32
TAA611C	♦SGSI	18- 33
TAA611GX1	SGSI	18- 43
TAA621	♦SGSI	18- 54
TAA710A	♦INTG	19- 18
TAA710B	♦INTG	19- 19
TAA761	SIEG	none
	♦VALG	
Repl.by TAA521 Cur.		
TAA900	♦ALGG	18- 15
TAA900S	♦ALGG	18- 13
TAA920	♦ALGG	29- 90
TAA930A	♦ALGG	30- 37
TAA930B	♦ALGG	30- 38
TAA940D	ALGG	30- 34
TAA940E	ALGG	30- 35
TAA940F	ALGG	30- 36
TAA981	SIEG	19- 11
TAA991	SIEG	19- 12
TBA110A	♦INTG	29- 91
TBA110B	♦INTG	29- 92
TBA261	SGSI	19- 35
TBA311	♦SGSI	29- 93
TBA440Q	♦SIEG	20- 61
TDC1710	TEC	23- 23
TDC1710P	TEC	none
Repl.by TDC1710J Cur.		
TDC1711	TEC	23- 67
TDC1711P	TEC	none
Repl.by TDC1711J Cur.		
TDC2710	TEC	23- 37
TDC2710E	TEC	23- 38
TDC2710P	TEC	none
Repl.by TDC2710J Cur.		
TDC2711	TEC	23- 74
TDC2711E	TEC	23- 75
TDC2711P	TEC	none
Repl.by TDC2711J Cur.		
TDC4711	TEC	23- 82
TDC4711P	TEC	none
Repl.by TDC4711J Cur.		
TDC5711	TEC	23- 87
TDC5711P	TEC	none
Repl.by TDC5711J Cur.		
TDC6711	TEC	23- 68
TDC6711F	TEC	23- 69
TDC6711P	TEC	none
Repl.by TDC6711J Cur.		
TDC7711	TEC	23- 79
TDC7711F	TEC	23- 80
TDC7711P	TEC	none
Repl.by TDC7711J Cur.		
TDC8711	TEC	23- 83
TDC8711F	TEC	23- 84
TDC8711P	TEC	none
Repl.by TDC8711J Cur.		
TDC9711	TEC	23- 88
TDC9711F	TEC	23- 89
TDC9711P	TEC	none
Repl.by TDC9711J Cur.		
TF120	SSE	26- 71
TL1316P	♦ALGG	18- 58
TL1316PC	♦ALGG	18- 59
TL1702A	♦ALGG	7- 45
TL1702C	♦ALGG	7- 47
TL1710	♦ALGG	23- 24
TL1710C	♦ALGG	23- 39
TL1711C	♦ALGG	23- 76
TL2702A	♦ALGG	7- 46
TL2702C	♦ALGG	7- 48
TL2709	♦ALGG	10-105
TL2709C	♦ALGG	12- 13
TL2711C	♦ALGG	23- 77
TL2741	♦ALGG	7- 36
TL2741C	♦ALGG	8- 85
TL3710C	♦ALGG	23- 40
TL3741	♦ALGG	7- 37
TOA101AE	♦TEC	15- 58
TOA107E	♦TEC	15- 59
TOA118E	♦TEC	15- 16
TOA201AE	♦TEC	15- 60
TOA207E	♦TEC	15- 61
TOA218E	♦TEC	15- 17
TOA301AE	♦TEC	9- 29
TOA307E	♦TEC	9- 30
TOA318E	♦TEC	15- 18
TOA1709	TEC	10-106
TOA1709P	TEC	none
Repl.by TOA1709J Cur.		
TOA1741	TEC	8- 39
TOA1741P	TEC	none
Repl.by TOA1741J Cur.		
TOA1741W	TEC	8- 40
TOA1741WF	TEC	8- 41
TOA1741WP	TEC	8- 42
TOA1747F	TEC	7- 90
TOA1747P	TEC	none
Repl.by TOA1747J Cur.		
TOA1809P	TEC	none
Repl.by TOA1809J Cur.		
TOA2709	TEC	12- 8
TOA2709E	TEC	12- 9
TOA2709P	TEC	none
Repl.by TOA2709J Cur.		
TOA2741	TEC	8- 71
TOA2741E	TEC	8- 72
TOA2741P	TEC	none
Repl.by TOA2741J Cur.		
TOA2741W	TEC	8- 73
TOA2741WE	TEC	14- 50
TOA2741WF	TEC	8- 74
TOA2741WP	TEC	8- 75
TOA2747E	TEC	7- 89
TOA2747P	TEC	none
Repl.by TOA2747J Cur.		
TOA2748E	TEC	8- 76
TOA2809E	TEC	7- 91
TOA2809P	TEC	none
Repl.by TOA2809J Cur.		
TOA3709	TEC	10-107
TOA3709E	TEC	10-108
TOA3709P	TEC	none
Repl.by TOA3709J Cur.		
TOA4709	TEC	9- 38
TOA4709P	TEC	none
Repl.by TOA4709J Cur.		
TOA6809	TEC	10-109
TOA6809F	TEC	10-110
TOA6809P	TEC	11- 1
TOA7709	TEC	11- 2
TOA7709P	TEC	none
Repl.by TOA7709J Cur.		
TOA7741	TEC	8- 43
TOA7741P	TEC	none
Repl.by TOA7741J Cur.		
TOA7741W	TEC	8- 44
TOA7741WF	TEC	8- 45
TOA7741WP	TEC	17- 48
TOA7809	TEC	11- 3
TOA7809P	TEC	none
Repl.by TOA7809J Cur.		
TOA8709	TEC	12- 14
TOA8709E	TEC	12- 15
TOA8709P	TEC	none
Repl.by TOA8709J Cur.		
TOA8741	TEC	8- 77
TOA8741E	TEC	8- 78
TOA8741P	TEC	none
Repl.by TOA8741J Cur.		
TOA8741W	TEC	17- 49
TOA8741WE	TEC	14- 51
TOA8741WF	TEC	17- 50
TOA8741WP	TEC	17- 51
TOA8747E	TEC	8- 79
TOA8748E	TEC	8- 80
TOA8809	TEC	12- 16
TOA8809E	TEC	12- 17
TOA8809P	TEC	none
Repl.by TOA8809J Cur.		
TT0.5W	TEK	18- 17
TT1.0W	TEK	18- 18
TVR2000	TEC	21-101
TVR2000P	TEC	none
Repl.by TVR2000J Cur.		
TVR2001	TEC	21-102
TVR2001P	TEC	none
Repl.by TVR2001J Cur.		
TVR2002	♦TEC	21- 54
TVR2002P	TEC	none
Repl.by TVR2002J Cur.		
TVR2723E	TEC	21- 92
uA108-3F	FSC	15- 34
uA108-6A	FSC	15- 35
uA108A-3F	FSC	15- 30
uA108A-6A	FSC	15- 31
uA109BN	♦FSC	21- 11
uA201-9T	FSC	8- 83
uA208-3F	FSC	15- 36
uA208-6A	FSC	15- 37
uA208A-3F	FSC	15- 32
uA208A-6A	FSC	15- 33
uA209BN	♦FSC	21- 12
uA308-6A	FSC	15- 2
uA308-9A	FSC	15- 3
uA308-9T	FSC	15- 1
uA308A-6A	FSC	14-108
uA308A-9A	FSC	14-109
uA308A-9T	FSC	14-110
uA309BN	♦FSC	21- 10
uA702B-3F	FSC	7- 61
uA703-5D	FSC	19- 25
uA703C-5D	FSC	19- 26
uA709B-3F	FSC	12- 2
uA710-3H	♦FSC	23- 25
uA710B-3F	FSC	23- 42
uA711B-3F	FSC	23- 78
uA719-5F	FSC	19- 32
		20- 56
		29- 94
uA719C-5F	FSC	19- 31
		20- 57
		29- 95
uA733C-3F	♦FSC	20- 55
uA735-5B	FSC	7- 96
uA735B-5B	FSC	7- 97
uA735C-5B	FSC	7- 98
uA741B-3F	FSC	8- 81
uA744-5B	FSC	8- 13
uA745-3I	FSC	18- 11
uA748B-3F	FSC	8- 82
uA751-3H	FSC	20- 26
uA751-5B	FSC	20- 27
uA776-3F	FSC	14-104
uA784-9A	♦FSC	29- 96
uA784-9C	♦FSC	29- 97
uA785-9B	♦FSC	29- 98
uA785-9D	♦FSC	29- 99
uA786-9B	♦FSC	29-100
uA786-9D	♦FSC	29-101
uA3064-5A	FSC	29-102
uA3065-7F	♦FSC	29-103
uA3065-9A	♦FSC	29-104
uA3065-9C	♦FSC	29-105
U3805	TPN	15- 20
U5801	♦TPN	9- 58
UC709	SOD	8- 19
UC4100CM	SOD	13- 29
UC4200	SOD	15- 71
UC4200C	SOD	15- 72
UC4200CM	SOD	15- 73
ULN2103M	♦SPR	20- 38
ULN2117A	♦SPR	29-106
ULN2117N	♦SPR	29-107
ULN2709CM	♦SPR	12- 1
ULN2709M	♦SPR	10- 95
ULN2723A	♦SPR	21- 99
ULN2723K	♦SPR	21- 93
ULS2723A	♦SPR	21-100
ULS2723K	♦SPR	21- 94
ULX2114K	SPR	none
Repl.by ULN2114K Cur.		

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK

Obs-In this book

Δ-Registered with JEDEC by this manufacturer

2. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
USL1	TPN	16- 8
USL1A	TPN	16- 7
USL1B	TPN	16- 6
USL1C	TPN	16- 5
VA5B10731	♦VAD	8- 87
VA5B10739	♦VAD	8- 88
VA5B143631	♦VAD	16- 19
VA5B143639	♦VAD	16- 20
VA5B145831	♦VAD	11- 26
VA5B145839	♦VAD	11- 27
VA5B153631	♦VAD	16- 17
VA5B153639	♦VAD	16- 18
VA5B155831	♦VAD	9- 91
VA5B155839	♦VAD	9- 92
VA5B425031	♦VAD	7- 9
VA5B425039	♦VAD	7- 10
VA5B74131	VAD	8- 22
VA5B74139	VAD	8- 46
VA5B74831	♦VAD	8- 47
VA5B74839	♦VAD	8- 48
VA5R159631	VAD	27- 17
VA5R159639	VAD	27- 16
VA5R72331	VAD	21- 95
VA5R72339	VAD	21- 96
VA6A159531	VAD	26- 25
VA6A159539	VAD	26- 26
VA6A74731	VAD	8- 23
VA6A74739	VAD	8- 49
VA6T145831	♦VAD	11- 28
VA6T145839	♦VAD	11- 29
VA6T155831	♦VAD	9- 93
VA6T155839	♦VAD	9- 94
VA6T74139	VAD	8- 24
VA6T74731	♦VAD	11- 30
VA6T74739	♦VAD	11- 31
VA3018	VAD	29- 32
VA3018A	VAD	29- 33
VA3019	VAD	30- 1
VA3026	VAD	17- 36
VA3036	VAD	29- 34
VA3039	VAD	29- 48
VA3045	VAD	29- 35
VA3049	VAD	29- 36
VM101	INT	26- 35
VR1030	TRA	21- 6
VR1050	TRA	21- 14
VR1060	TRA	21- 19
VR1090	TRA	21- 25
VR1120	TRA	21- 44
VR1150	♦TRA	21- 63
VR1180	♦TRA	21- 86
VR1200	♦TRA	21-103
VR1220	♦TRA	22- 1
VR1240	♦TRA	22- 14
VR1270	♦TRA	22- 22
VR1320	♦TRA	22- 26
VR1360	♦TRA	22- 31
VR2150	TRA	21- 69
VR2180	TRA	21- 88
VR2200	TRA	21-105
VR2220	TRA	22- 2
VR2240	TRA	22- 16
VR2270	TRA	22- 23
VR2320	TRA	22- 28
VR2360	TRA	22- 32
VRN12	GIC	21- 36
VRN24	GIC	22- 12
VRP12	GIC	21- 37
VRP24	GIC	22- 13
WC101T	WESY	15- 42
WC109T	♦WESC WESY	21- 26
WC115T	WESY	17- 14
WC161Q	♦WESC	7- 63
WC183G	♦WESC	18- 7
WC183T	♦WESC	18- 8
WC330R	WESY	21- 50
WC1146T	♦WESC WESY	20- 34
WC1709	♦WESC	11- 95
WC1709D	WESY	8- 14
WC1709T	WESY	8- 15
WM101T	WESY	9- 35
WM306Q	♦WESC	7- 84
WM330R	♦WESC WESY	21-110
WM741T	WESY	7-104
WM1146Q	♦WESC WESY	20- 35
WM1709	♦WESC	9-106
WM1709K	WESY	8- 16
WM1709Q	WESY	8- 17
WM1709T	WESY	8- 18
WT49	♦XDS	22- 30
Z5AT250SL	♦ZEL	28- 58
Z5AT250SP	♦ZEL	28- 59
Z5AT500SP	♦ZEL	28- 60
Z5AT1000SP	♦ZEL	28- 61
Z5AZ250SL	♦ZEL	28- 62
Z5AZ250SP	♦ZEL	28- 63
Z5BT1000SP	♦ZEL	28- 64
Z15AT100TL#2	♦ZEL	28- 65
Z15AT100TP#2	♦ZEL	28- 66
Z15BT100TL#1	♦ZEL	28- 67
Z15BT100TL#2	♦ZEL	28- 68
Z15BT100TP#1	♦ZEL	28- 69
Z15BT100TP#2	♦ZEL	28- 70
Z15BT200DP	♦ZEL	28- 71
Z15CT100TP#1	♦ZEL	28- 72
Z15CT100TP#2	♦ZEL	28- 73
Z15DZ30DL	♦ZEL	29- 6
Z15DZ30DP	♦ZEL	29- 7
Z15DZ30DU	♦ZEL	29- 8
Z15DZ65DL	♦ZEL	29- 9
Z15DZ65DP	♦ZEL	29- 10
Z15DZ65DU	♦ZEL	29- 11
Z15DZ100DL	♦ZEL	29- 12
Z15DZ100DP	♦ZEL	29- 13
Z15DZ100DU	♦ZEL	29- 14
Z15DZ100SL	♦ZEL	29- 15
Z15DZ100SU	♦ZEL	29- 16
Z15DZ200DL	♦ZEL	29- 17
Z15DZ200DU	♦ZEL	29- 18
Z15EZ40TL#1	♦ZEL	29- 19
Z15EZ40TL#2	♦ZEL	29- 20
Z15FZ40TL#1	♦ZEL	29- 21
Z15FZ40TL#2	♦ZEL	29- 22
Z200DZ20SU	♦ZEL	29- 23
ZA101D	ZEL	13- 3
ZA701D20	♦ZEL	17- 58
ZA801T1	♦ZEL	17- 53
ZA802M2	♦ZEL	9- 21
ZA803M1	ZEL	17- 52
ZBA1	FERB	30- 3
ZC741E1	♦ZEL	9- 15
ZC741E6	♦ZEL	9- 16
ZC801E1	♦ZEL	12- 46
ZEL1A	♦ZEL	10- 52
ZLA1A	FERB	18- 53 20- 75
ZLA30	FERB	19- 14
ZLD2S	♦FERB	7- 77
ZM605M20	ZEL	25- 82
ZM1260	♦ZEL	28- 74
ZM1525	ZEL	28- 75
ZM1550	♦ZEL	28- 76
ZM1850	♦ZEL	28- 77
ZM2450	♦ZEL	28- 78
ZM3050	♦ZEL	28- 79
ZM12100	♦ZEL	28- 80
ZM15100	♦ZEL	28- 81
ZN401T	♦FERB	21- 23
ZP5250	ZEL	28- 82
ZP5500	ZEL	28- 83
ZP51000	ZEL	28- 84
ZSP6	♦FERB	29-108
ZSP7	♦FERB	29-109

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK

Obs-In this book

△-Registered with JEDEC by this manufacturer

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR.@25°C		MIN TRANSFER CHAR @ 25°C				TEMP CODE	DRAWINGS	
				OVER OPERATING TEMP. RANGE				MIN.-@25°C										
				MAX VOLTAGE		MAX CURRENT												
		1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	3 DRFT (V/°C)	4 OFST (V)	OFFSET (A)	BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	-+	CKT.	OUT-LINE Δ=MO
1	A151	5.4	162u	10u	1.0m†§	3.0n§†	20n§	3.0	10M†	2.0	2.0m	150k†Ø	100	100m	80 †	28		MP58c
2	A150	5.4	162u	20u	2.0m†§	3.0n§†	20n§	3.0	10M†	2.0	2.0m	150k†Ø	100	100m	80 †	28		MP58c
3	2LV1	5.4	5.4m	15u	Δ		3.0n§	2.4	500k†	2.4	2.4m	100k§	80	7.0m†	80	28		MP8
4	735-12-5B#1	6.0	100u†		3.0m†	2.0n§†	5.0n§†	6.0 Δ	10M†	2.4 †	5.0kØ		86 †		90	5C	A108	TO99
5	150Δ	6.6	6.0m	20u	Δ	5.0n§	50n§	2.0 Δ	1.0M	3.0	2.5m	1.5MØ	80	1.2	80	28		MP6c
6	CA3032-702C1	8 §	125m		15m	7.5u	20u	4.5 §†	6.0k	10	100kØ	550k	59		65	07	A015	TO99
7	PA7751-39	10	139m		4.0m			1.0	140	1.0		30M	51		46	07		TO99
8	PL7751-39	10	139m		4.0m			1.0	140	1.0		30M	51		46	07		FP2m
9	VA5B425031	12	1.2m	5.0u†	2.0m†§	5.0n§†	30n§†	24	6.0M†	10	20kØ	250k†Ø	100 †	50m†	80 †	5C	A123a	TO99
10	VA5B425039	12	1.2m	5.0u†	2.0m§†	5.0n§†	30n§†	24	6.0M†	10	20kØ	250k†Ø	100 †	50m†	80 †	07	A123a	TO99
11	CA3078	12	1.2m	10u	5.0m	40n	200n	10	870k	10	6.5m	2.0k	86	100m	80	07	Z122	Δ002AL
12	170⍁	12	2.6m	20u	Δ	10n	50n	3.0	1.0M	8.0	10m	300k§	100	300m	72	28		MP6g
13	3001/13	12	12m	10u	1.5m⍁	40n⍁		8.0	1.0M†	8.0	10m	500kØ	96	.10		48		MP1
14	3001/15	12	12m	10u	1.5m⍁	40n⍁		8.0	1.0M†	8.0	10m	500kØ	96	.10		48		MP2
15	3001/16	12	12m	10u	1.5m⍁	40n⍁		8.0	1.0M†	8.0	10m	500kØ	96	.10		48		MP3
16	3001/26	12	12m	10u	1.5m⍁	40n⍁		8.0	1.0M†	8.0	10m	500kØ	96	.10		48		MP4
17	3002/13	12	24m	15u	2.5m⍁		100p§	8.0	100G†	8.0	10m	500kØ	90	.70		48		MP1
18	3002/15	12	24m	15u	2.5m⍁		100p§	8.0	100G†	8.0	10m	500kØ	90	.70		48		MP2
19	3002/16	12	24m	15u	2.5m⍁		100p§	8.0	100G†	8.0	10m	500kØ	90	.70		48		MP3
20	3002/26	12	24m	15u	2.5m⍁		100p§	8.0	100G†	8.0	10m	500kØ	90	.70		48		MP4
21	9300	12	132m	50u§	10m§	3.0u§	10u§	4.0 §	3.0k	2.0	5.0m	1.0M	34	30	60	07	A070	CN20
22	SFC2530F	12	150m	10u	5.0m§	2.0u§	10u§	2.0	10k	9.0	1.0kØ	1.0M	73		70	5C	A045	FP⍁
23	SFC2530G	12	150m	10u	5.0m§	2.0u§	10u§	2.0	10k	9.0	1.0kØ	1.0M	73		70	5C	A045	CN8e
24	SFC2531F	12	150m	15u	15m	.10u	.30u	2.0	300k	4.0	1.0kØ	.40k	70	.10	70	07	A045	FP⍁
25	SFC2531G	12	150m	15u	15m	.10u	.30u	2.0	300k	4.0	1.0kØ	.40k	70	.10	70	07	A045	CN8e
26	SFC2430F	12	150m	20u	5.0m§	8.0u§	15u§	4.0	5.0k	8.0	1.0kØ	1.0M	70	.10	65	07	A045	FP⍁
27	SFC2430G	12	150m	20u	5.0m§	8.0u§	15u§	4.0	5.0k	8.0	1.0kØ	1.0M	70	.10	65	07	A045	CN8e
28	MC1435P*	12	180m	3.0u†	7.5m	1.5u	5.0u§	5.0 §	10k	10	10kØ	1.0M	71	.67	60	07	A035	MP25a
29#	SL703B	12	150	3.0u†	5.0m	500n	2.5u		50k†			900k	68		85	5H	A095	CN11b
30#	SL704B/F	12	150	3.0u†	5.0m§	500n§	2.5u§		50k†			900k	68		85	5H	A095b	FP2h
31#	SL704B/T	12	150	3.0u†	5.0m§	500n§	2.5u§		50k†			900k	68		85	5H	A095a	
32#	SL703A	12	150	8.0u	2.0m	200n	1.5u		50k†			900k	68		100	5H	A095	CN11b
33#	SL704A/F	12	150	8.0u	2.0m§	200n§	1.5u§		50k†			900k	68		100	5H	A095b	FP2h
34#	SL704A/T	12	150	8.0u	2.0m§	200n§	1.5u§		50k†			900k	68		100	5H	A095a	
35	A215	14	14m	2.0m⍁	Δ	50p	50p§	20	1.0T†	20	2.0m	1.5M		4.0k	80	28		MP51
36#	TL2741	15	85m	6.0u†	6.0m	500n	500n§	24	300k	24	10kØ	10	94	800m†	70	5C	A014	TO116
37#	TL3741	15	85m	6.0u†	6.0m	500n	500n§	24	300k	24	10kØ	10	94	800m†	70	5C	A014	MP39f
38	L120A*	15 §	98m		200m	50n	50n	30	200G†	24	1.2m	10M§	40	20 †	50	5C	A064	TO99
39#	SFC2430	16	110m	5.0u§†	1.0m§†	.40u§†	5.0u§†		15k†			1.3M†	74 †		90 †	07	A045	TO100
40#	SFC2430E	16	110m	5.0u§†	1.0m§†	.40u§†	5.0u§†		15k†			1.3M†	74 †		90 †	07	A045	TO116
41#	SFC2431	16	110m	15u§†	5.0m§†	10n§†	.10u§†		600k†			400k†	71 †		75 †	07	A046	TO100
42#	TAA445	18 §						11	10k†	11					18		A161	FP20
43#	SFC2530	18	110m	3.0u§†	1.0m§†	.20u§†	3.0u§†		20k†			1.3M†	74 †		90 †	5C	A045	TO100
44#	SFC2531	18	110m	10u§†	3.0m§†	3.0n§†	25n§†		2.0M†			400k†	71 †		75 †	5C	A046	TO100
45#	TL1702A	18 §	120m	2.5u†⍁	3.0m	1.5u	10u⍁	2.0 §	16k	10	100kØ	400k†	67	1.5 †	100 †	5C	A015	TO99
46#	TL2702A	18 §	120m	2.5u†⍁	3.0m	1.5u	10u⍁	2.0 §	16k	10	100kØ	400k†	67	1.5 †	100 †	5C	A015	TO116
47#	TL1702C	18 §	120m	5.0u†	6.5m	2.5u	12u⍁	4.5 §	10k	10	100kØ	400k†	66	1.5 †	70	07	A015	TO99
48#	TL2702C	18 §	120m	5.0u†	6.5m	2.5u	12u⍁	4.5 §	10k	10	100kØ	400k†	66	1.5 †	70	07	A015	TO116
49	702-1-3H	18 §	120m	10u	3.0m	1.5u	10u	4.5 §	16k	10	100kØ	1.0M†	68		80	5C	A015	FP2d
50	702-1-5B	18 §	120m	10u	3.0m	1.5u	10u	4.5 §	16k	10	100kØ	1.0M†	68		80	5C	A015	TO99
51#	702-1-36	18 §	120m	10u	3.0m	1.5u	10u	4.5 §	16k	10	100kØ	1.0M†	68	50 †	80	5C		TO91
52	CA3031-702A	18 §	120m	10u†	6.0m	3.0u	20u	4.5 §†	8.0k	10	100kØ	550k	60		70	5C	A015	TO99
53	RM702F	18 §	120m	10u	6.0m	3.0u	20u	4.5 §	8.0k	10	100kØ	1.0M†	63		70	5C	A015	FP2g
54	RM702Q	18 §	120m	10u	6.0m	3.0u	20u	4.5 §	8.0k	10	100kØ	1.0M†	63		70	5C	A015	FP2k
55	RM702T	18 §	120m	10u	6.0m	3.0u	20u	4.5 §	8.0k	10	100kØ	1.0M†	63		70	5C	A015	TO99
56	RC702AQ	18 §♦	120m	15u	3.0m	1.5u	10u	4.5 §	40k†	10	100kØ	1.0M†	68		80	07	A015	FP2k
57	RM702AD	18 §♦	120m	15u	3.0m	1.5u	10u	4.5 §	40k†	10	100kØ		68		80	5C	A015	MP40
58	702-9-3H	18 §	120m	20u	6.5m	2.5u	12u	4.5 §	10k	10	100kØ	1.0M†	66		80	07	A015	FP2d
59	702-9-5B	18 §	120m	20u	6.5m	2.5u	12u	4.5 §	10k	10	100kØ	1.0M†	66		80	07	A015	TO99
60#	702-9-36	18 §	120m	20u	6.5m	2.5u	12u	4.5 §	10k	10	100kØ	1.0M†	66	50 †	80	07		TO91
61	uA702B-3F	18 §	120m	20u	6.5m	2.5u	12u	4.5 §	10k	10	100kØ	1.0M†	66		80	5C	A015	TO91
62	TAA243	18 §	125m		15m§	5.0u§	15u§	7.5 §Δ	6.0k	10	100kØ		59		65	2A	A077	TO99
63#	WC161Q	20		10u§	20m§	250n§			100k	7.0	560 Ø	250k	58		37	5C	A074	TO91
64#	TAA182	20	420m	10u§	20m§	.25u§	.80u§	9.8	100k	7.0		250k	58		75	5C	A074	TO91
65	HA100	21 §	45m		50m				10G			10M†§	64	.40 †		28		TO96
66	RC702CQ	21 §♦	135m		6.0m		2.5u§†	7.5 §	30k†	10			70			07	A015	FP2k
67	RC702CT	21 §♦	135m		6.0m		2.5u§†	7.5 §	30k†	10			70			07	A015	TO99
68	GEL230F2	24	36m†	10u†⍁	10m⍁		2.0u†	3.0 Δ	15k	9.0		500k	72		90 †	5B	A007	MP13b
69	PC250	24	100m†	500u	150m		300u§		100T			30k	44		42 †		A029	FP7
70	PC251	24	100m†	500u	150m		300u§		100T			30k	44		42 †		A029	FP7
71	SN524A	24	120m	25u†	40m	60n	350n§	10 †Δ	350k	16 †	♦	70k	63 †		55 †	5C	A067	TO89
72	SN524AL	24	120m	25u†	40m	60n	350n§	10 †Δ	350k	16 †	♦	70k	63 †		55 †	5C	A067	CN1
73	SN724F	24	120m†	30u†	40m	70n	500n§	10 †	250k	12 †	♦	60k	62		55 †	07	A067	TO89
74	SN724L	24	120m†	30u†	40m	70n	500n§	10 †	250k	12 †	♦	60k	62		55 †	07	A067	CN1
75	SN724N	24	120m†	30u†	40m	70n	500n§	10 †	250k	12 †	♦	60k	62		55 †	07	A067	MP39
76	GEL223F1	24	192m	10u†⍁	25m§	8.0n†§	250n§	6.0 Δ	400k	20		500k	71		70	5B	A006	MP13b
77#	ZLD2S	24	240m	5.0u⍁	5.0m§	500n§	4.0u§	24 Δ	500k†	18	6.0m†	50k†	65 †		80 †	58	A080	TO78
78#	SL701B	24	300m	15u†	5.0m	.30u	1.0u	11 §Δ	100k	7.8		250k	66		70	5H	A076	CN11b
79#	SL702B	24	300m	15u†	5.0m	.30u	1.0u	11 §Δ	100k	7.8		250k	66		70	5H	A076a	CN11b
80#	SL751B	24	300m	15u†	5.0m	.30u	1.0u	11 §Δ	100k	7.8		250k	66		70	5H	A076b	FP6c
81#	SL701C	24	300m	15u†	20m	1.8u	3.0u	11 §Δ	100k	7.0		250k	66		60	5H	A076	CN11b
82#	SL702C	24	300m	15u†	20m	1.8u	3.0u	11 §Δ	100k	7.0		250k	66		60	5H	A076a	CN11b
83#	SL751C	24	300m	15u†	20m	1.8u	3.0u	11 §Δ	100k	7.0		250k	66		60	5H	A076b	FP6c
84#	WM306Q	24	450m†	5.0u†§	10m§		80u§	12	100k	9.0	♦	500k†	61		83	5C	A116	TO86
85	AB01-10	24 §	555m	200u⍁		.50u†		24	3.0k	20	10m	200k	86 †	.80	72	15	A025	CB3
86	AB01-20	24 §	555m	200u⍁		.50u†		24	3.0k	20	10m	8.0M	86 †	.80	72	15	A025	CB3
87	AB01-30	24 §	555m	200u⍁		.50u†		24	3.0k	20	10m	2.0M	86 †	.80	72	15	A025	CB3
88	AB01	24 §	555m	200 ⍁		500n†		24	3.0k	20	10m	200k	86 †	800m	72	15	A025	CB3
89	TOA2747E*	30			7.5m	300n	800n	24	300	24	10kØ	10k	86	500m†	70	07		TO116
90	TOA1747F	30			6.0	.50	1.5	24	300	24	10k	10	94	500m	70	5C		
91	TOA2809E*	30		3.0u	10m	750n	2.0u	16	50k	24	10kØ	10k	83	300m†	65	07	A104	TO116
92#	SFC2102§	30		6.0u†	5.0m	10n		20	100G	20						5C	A002	TO99
93	LA709-M	30		6.0u†	6.0m	500n	1.5u	3.0	150k	16	♦	200k	100	250m†	70	5C	A003	MP⍁
94	3058/01	30		15u†	4.0m†§	30n†§	.40u†§	22 Δ	200k†	20	10m	1.0M†Ø	90 †	.60	100 †	28		CN1a
95	735-12-5B#2	30	6.0m†		3.0m†	4.0n§†	10n§†	30 Δ	5.0M†	24 †	10kØ		92 †		90	5C	A108	TO99
96	uA735-5B	30	6.0m	3.0u†	2.5m	10n⍁	40n⍁	30 Δ	5.0M†	20	2.0kØ		87		30 †	5C	A108	TO99
97	uA735B-5B	30	6.0m	3.0u†	5.0m	60n⍁	75n⍁	30 Δ	5.0M†	20	2.0kØ		87		30 †	28	A108	TO99
98	uA735C-5B	30	6.0m	3.0u†	7.5m	60n⍁	110n⍁	30 Δ	5.0M†	20	2.0kØ		87		30 †	07	A108	TO99
99	P65CQ	30	27m	36u	Δ	50n		10	300k†	22	1.1m	1.3MØ	103	500m†	60	28		
100	P65Q	30	27m	36u	Δ	50n		20	300k†	22	1.1m	1.3kØ	103	500m†	60	28		
101	PP65Q	30	27m	36u	Δ	50n		20	300k†	22	1.1m	1.3kØ	103	500m†	60	28		
102	CA45	30	30m†	1.0u	50u	75p		SE	450k	20	10m	2.0MØ	140	30		5A		MP5t
103	KM56	30	30m	3.0u	.54m	50n†§			250k	22	4.4m	3.0M†Ø	98		80	5C		MP6c
104	WM741T	30	50m		1.0m	30n	.20u	24	1.0M	26	13m	10	100	.50	90	5C		CN18b
105	RC4131CD	30 ♦	57m		6.0m		70n§†	30	3.0M†	24			106			07	A092	MP40
106	RC4131CQ	30 ♦	57m		6.0m		70n§†	30	3.0M†	24			106			07	A092	FP2k
107	RC4131CT	30 ♦	57m		6.0m		70n§†	30	3.0M†	24			106			07	A092	TO99
108	RC1556AD	30	60m		3.0m	2.0n§	15n	24	5.0m†	24	2.0kØ	4.0M†Ø	100	2.0 †	80	07	A100	MP40
109	RC1556ADN	30	60m		3.0m	2.0n§	15n	24	5.0M†	24	2.0kØ	4.0M†Ø	100	2.0 †	80	07	A100	MP40
110	RC1556AT	30	60m		3.0m	2.0n§	15n	24	5.0M†	24	2.0kØ	4.0M†Ø	100	2.0 †	80	07	A100	TO99

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE				INPUT CHARACTERISTICS MIN.-@25°C		MIN. OUTPUT CHAR.@25°C		MIN TRANSFER CHAR @ 25°C				TEMP CODE	DRAWINGS	
				MAX VOLTAGE		MAX CURRENT												
		1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	3 DRFT (V/°C)	4 OFST (V)	OFFSET (A)	BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	-+	CKT.	OUT-LINE Δ=MO
1	KM26	30	60m	5.0u⍁	1.8m	50n†§			500k	22	5.0m	5.0MØ	94		80	5C		MP6d
2	9125	30	60m	100u	10m	.30u	.60u	20	100k	20	.60m	30k	60	15		58		MP⍁
3	HA2-909A	30	75m	25u⍁	2.0m§	50n§	200n§	24	300k	24	40m	7.0M†Ø	88	1.7	80	5C	A050	TO99
4	RA2909A	30	75m	25u⍁	2.0m§	50n§	.20u§	24	300k	24	40m	7.0M†Ø	88	1.7	80	5C	A050	TO99
5	HA9-909A	30	75m	25u	3.0m	130u	200n§	24	300k	24	40m	7.0M†Ø	88	1.7	80	5C	A050	TO86
6	RA909A	30	75m	25u	3.0m	130u	.20u§	24	300k	24	40m	7.0M†Ø	88	1.7	80	5C	A050	TO86
7	RA909	30	75m	25u	6.0m	300n	300n	24	300k	22	30m	7.0M†Ø	88	2.0	80	5C	A050	TO86
8	RA2909	30	75m	25u	6.0m	300n	300n	24	300k	22	30m	7.0M†Ø	88	2.0	80	5C	A050	TO99
9	RA911	30	75m	30u	7.5m	450n	500n	24	300k	24	30m	7.0M†Ø	88	1.7	74	07	A050	TO86
10	RA2911	30	75m	30u	7.5m	450n	500n	24	300k	24	30m	7.0M†Ø	88	1.7	74	07	A050	TO99
11#	SFC2709E	30	80m		2.0m§†	.10u§†	.30u§†		250k†				93 †		90 †	07	A003	TO116
12#	SFC2709P	30	80m		2.0m§†	.10u§†	.30u§†		250k†	28 †			93 †		90 †	07	A003	TO91
13	uA744-5B	30	80m†		2.0m§†	100n§†	300n§†	20 †	250k†	26 †	2.0kØ		93 †	400m†	90 †	5C	A110	TO99
14	WC1709D	30	80m		2.0m	.10u	.30u	24	250k	26	13m	10k	100	.20	90	07	A043	MP14e
15	WC1709T	30	80m		2.0m	.10u	.30u	24	250k	26	13m	10k	100	.20	90	07	A043	CN18b
16	WM1709K	30	80m	3.0u	1.0m	50n	.20u	24	400k	26	13m	10k	100	.20	90	5C	A043	MP14f
17	WM1709Q	30	80m	3.0u	1.0m	50n	.20u	24	1.0M	26	13m	10k	100	.50	90	5C	A043	FP6b
18	WM1709T	30	80m	3.0u	1.0m	50n	.20u	24	400k	26	13m	10k	100	.20	90	5C	A043	CN18b
19	UC709	30	80m	6.0u†	6.0m	75n	.22u	16	1.0M	24	10kØ		88		90 †	5C		TO99
20	MH1A741	30 ♦	85m†		5.0m	200n	500n	24	300k	20	2.0kØ	1.0M†Ø	94	500m†	70	5C		MP159
21	PA7741-31	30	85m		5.0m	200n	500n	24	300k	20	2.0kØ		87	500m†	70	5C	A042b	TO99
22	VA5B74131	30	85m		5.0m	200n	500n	24	300k	20	2.0kØ	1.0M	94	500m	70	5C	A042a	TO99
23	VA6A74731	30	85m		5.0m	200n	500n	24	300k	20	2.0kØ	1.0M	94	500m	70	5C	A042a	MP151
24	VA6T74139	30	85m		5.0m	200n	500n	24	300k	20	2.0kØ	1.0M	94	500m	70	07	A042n	MP48
25#	741-1-5B	30	85m		6.0m	500n	1.5u	24	300k	20	2.0kØ	1.0M	94	500m	70	5C		TO99
26#	741-1-36	30	85m		6.0m	500n	1.5u	24	300k	20	2.0kØ	10 †	94	500m†	70	5C		TO91
27	741BN	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ	1.0MØ	94	500m†	70	5C	A014	TO116
28	747BN*	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ	1.0MØ	94	500m†	70	5C	A042a	TO116
29	CA3056A741	30	85m		6.0m	500n⍁	15u⍁	24 Δ	300k	20	25m		93	500m†	70	5C	Z117	Δ002AL
30	GEL741D2	30	85m		6.0m	500n⍁	1.5 ⍁	24	300k	20	2.0kØ	1.0MØ	94	500m†	70	5C	A042	TO99
31	PA7741C39	30	85m		6.0m	200n	500n	24	300k	20	2.0kØ		88	500m†	70	07	A042	TO99
32	PD7741-31	30	85m		6.0m	500n	1.5u	24	300k	24		1.0M	94	500m	70	5C		MP⍁
33	PD7741C39	30	85m		6.0m	200n	500n	24	300k	20	2.0kØ		88	500m†	70	07	A042	TO116
34	PL7741-31	30	85m		6.0m	500n	1.5u	24	300k	24		1.0M	94	500m	70	5C		FP2m
35	SE530A	30	85m		6.0m	500n	1.5u	24	300k	20	2.0kØ	1.0M	94	500m	70	5C		TO116
36	SE530G	30	85m		6.0m	500n	1.5u	24	300k	20	2.0kØ	1.0M	94	500m	70	5C		TO91
37	SE530T	30	85m		6.0m	500n	1.5u	24	300k	20	2.0kØ	1.0M	94	500m	70	5C		TO99
38	SG741N	30	85m		6.0m	500n	1.5u	24	300k	20	2.0kØ	1.0M	94	500m	70	07	A042	TO116
39	TOA1741	30	85m		6.0m	.50u	1.5u	24	300k	24	10kØ	10k	94	.50 †	70	5C		TO79
40	TOA1741W	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ	100k	94	5.0 †	70	5C		TO99
41	TOA1741WF	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ	100k	94	5.0 †	70	5C		TO91
42	TOA1741WP	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ	100k	94	5.0 †	70	5C		TO116
43	TOA7741	30	85m		6.0m	30n	90n	24	3.0M	24	10kØ	10k	94	1.0 †	70	5C		TO99
44	TOA7741W	30	85m		6.0m	30n	90n	24	3.0M	24	10kØ	100k	94	10 †	70	5C		TO99
45	TOA7741WF	30	85m		6.0m	30n	90n	24	3.0M	24	10kØ	100k	94	10 †	70	5C		TO91
46	VA5B74139	30	85m		6.0m	200n	500n	24	300k	20	2.0kØ	1.0M	94	500m	70	07	A042a	TO99
47	VA5B74831	30	85m		6.0m	200n⍁	500n⍁	24	300k	24	10kØ	1.0M	93	500m	70	5C	A112	TO99
48	VA5B74839	30	85m		6.0m	200n⍁	500n⍁	24	300k	24	10kØ	1.0M	93	500m	70	07	A112	TO99
49	VA6A74739	30	85m		6.0m	200n	500n	24	300k	20	2.0kØ	1.0M	94	500m	70	07	A042a	MP151
50#	741-9-5B	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ	1.0M	86	500m	70	07		TO99
51#	741-9-6E	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ	1.0M	86	500m	70	07		MP39
52#	741-9-36	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ	10 †	86	500m†	70	07		TO91
53#	741-93-6E	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ	1.0M	86	500m†	70	07	A042k	MP39
54	741CN	30	85m		7.5m	300n	800n	24	300k	24	10kØ	1.0MØ	94	500m†	70	0A	A014	TO116
55	747CN*	30	85m		7.5m	300n	800n	24	300k	24	10kØ	1.0MØ	94	500m†	70	0A	A042a	TO116
56	748CE	30	85m		7.5m	300n	800n	24	300k	24	10kØ	1.0MØ	106 †	500m†	70	07	A042b	TO99
57	CA3056-741C	30	85m		7.5m	300n	800n	24	300k	20	25m		86	500n†	70	07	Z117	Δ002AL
58	GEL741D1	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ	1.0MØ	86	500m†	70	07	A042	TO99
59	GEL741F1	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ	1.0MØ	86	500m†	70	07	A042	TO116
60	GEL1741AD	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ	1.0MØ	86	500m†	70	07	A042	
61	MC1741CP	30	85m		7.5m	300n	800n⍁	24	300k	24	10kØ		86	1.0 †	70	07	A014	MP25a
62	NE530G	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ	1.0M	86	500m	70	07		TO91
63	NE530T	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ	1.0M	86	500m	70	07		TO99
64	PA7741-39	30	85m		7.5m	300n	800n	24	300k	24		1.0M	86	500m	70	07		TO99
65	PD7741-39	30	85m		7.5m	300n	800n	24	300k	24		1.0M	86	500m	70	07		MP⍁
66	PL7741-39	30	85m		7.5m	300n	800n	24	300k	24		1.0M	86	500m	70	07		FP2m
67	RC741CD	30 ♦	85m		7.5m		200n§†	30	1.0M†	24			106			07	A042	MP40
68	RC741CQ	30 ♦	85m		7.5m		200n§†	30	1.0M†	24			106			07	A042	FP2k
69	RC741CT	30 ♦	85m		7.5m		200n§†	30	1.0M†	24			106			07	A042	TO99
70	SG747CN	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ		94	500m†	70	07	A042a	TO116
71	TOA2741	30	85m		7.5m	.30u	.80u	24	300k	24	10kØ	10k	86	.50 †	70	07		TO79
72	TOA2741E	30	85m		7.5m	300n	800n	24	300k	24	10kØ	10	86	500m	70	07		TO116
73	TOA2741W	30	85m		7.5m	300n	800n	24	300k	24	10kØ	100k	94	5.0 †	70	07		TO99
74	TOA2741WF	30	85m		7.5m	300n	800n	24	300k	24	10kØ	100k	94	5.0 †	70	07		TO91
75	TOA2741WP	30	85m		7.5m	300n	800n	24	300k	24	10kØ	100k	94	5.0 †	70	07		TO116
76	TOA2748E	30	85m		7.5m	300n	800n	24	300k	24	10kØ	100k	94	5.0 †	70	07		TO116
77	TOA8741	30	85m		7.5m	30n	90n	24	1.0M	24	10kØ	10k	94	1.0 †	70	07		TO99
78	TOA8741E	30	85m		7.5m	30n	90n	24	1.0M	24	10kØ	10	86	500m	70			TO116
79	TOA8747E*	30	85m		7.5m	30n	90n	24	1.0M	24	10kØ	10k	94	1.0 †	70	07		TO116
80	TOA8748E	30	85m		7.5m	30n	90n	24	1.0M	24	10kØ	10k	94	10 †	70	07		TO99
81	uA741B-3F	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ	1.0M	86	500m	70	07	A042	TO91
82	uA748B-3F	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ		88	500m†	70	07	A042b	TO91
83	uA201-9T	30	85m		10m	750n⍁	2.0u	24	100k	20	2.0kØ		86	500m†	65	07	A042c	MP48a
84	748BE	30	85m		6.0	500n	1.5u	24	300k	24	10kØ	1.0MØ	106 †	500m†	70	5C	A042b	TO99
85#	TL2741C	30	85m	6.0u†	7.5m	300n	800n	24	300k	24	10kØ	10	86	800m†	70	07	A014	TO116
86	ICL8008CDA	30	85m	10u†	7.5m	30n	90n	20	1.0M	20	2.0kØ	2.0M†Ø	86	500m†	70	07	A014	
87	VA5B10731	30 ♦	85m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	10	93	500m†	80	5C	A042f	TO99
88	VA5B10739	30 ♦	85m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	10	93	500m†	80	07	A042f	TO99
89	NE530A	30	86m		7.5m	300n	800n	24	300k	20	2.0kØ	1.0M	86	500m	70	07		TO116
90	RC101ACD	30 ♦	90m					30		24			103			07	A090	MP40
91	RC101ACQ	30 ♦	90m					30		24			103			07	A090	FP2k
92	RC101ACT	30 ♦	90m					30		24			103			07	A090	TO99
93	RC1101ACD	30 ♦	90m					30		24			103			07	A090	MP40
94	RC1101ACQ	30 ♦	90m					30		24			103			07	A090	FP2k
95	RC1101ACT	30 ♦	90m					30		24			103			07	A090	TO99
96	RM1101AD	30 ♦	90m		3.0m		30n§†	30	4.0M†	24			104			5C	A090	MP40
97	RM1101AQ	30 ♦	90m		3.0m		30n§†	30	4.0M†	24			104			5C	A090	FP2k
98	RM1101AT	30 ♦	90m		3.0m		30n§†	30	4.0M†	24			104			5C	A090	TO99
99	9709	30	90m	500n	100u	10p	50p	24 †	10G	20 †	20m	1.0M†§	140	300m†	100 †	58		
100	207A3	30	90m	2.0u	200u§	20n§	150n§	20	500k†	20	10m	2.0MØ†	88	1.0	94	5C		CN2
101	207A4	30	90m	3.0u	200u§	20n§	150n§	20	500k†	20	10m	2.0MØ†	88	1.0	94	5C		CN2
102	007A	30	90m	5.0u	200u§	20n§	150n§	20	500k†	20	10m	2.0MØ†	88	1.0	94	5C		FP1
103	007B	30	90m	5.0u	500u§	20n§	150n§	20	500k†	20	10m	2.0MØ†	88	1.0	94	5C		FP1
104	207B	30	90m	5.0u	500u§	20n§	150n§	20	500k†	20	10m	2.0MØ†	88	1.0	94	5C		CN2
105	A3003	30	90m	5.0u⍁	2.0m§	2.5n†§	25n§	24	2.0M†	20	10m	1.0MØ	100	500m	80	28		CN1c
106	9685	30	90m	5.0u	5.0m	50n	200n	24 †	500k	20 †	2.0	300k†§	90	60m†	100 †	27		
107	RM4101D	30 ♦	90m	6.0u†	6.0m	500n	1.5u	24	300k	24	10kØ	10M†	94		70	5C	A001	MP40
108	RM4101Q	30 ♦	90m	6.0u†	6.0m	500n	1.5u	24	300k	24	10kØ	10M†	94		70	5C	A001	FP2k
109	RM4101T	30 ♦	90m	6.0u†	6.0m	500n	1.5u	24	300k	24	10kØ	10M†	94		70	5C	A001	TO99
110	RC4101CD	30 ♦	90m	6.0u†	10m	750n	2.0u	24	150k	24	10kØ	10	83		65	07	A001	MP40

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR.@25°C		MIN TRANSFER CHAR @ 25°C				TEMP CODE	DRAWINGS	
				OVER OPERATING TEMP. RANGE				MIN.-@25°C										
		1 TOT. VOLT.	2 MAX IDLE P	MAX VOLTAGE		MAX CURRENT		CM RANGE	DIFF IMP.	P-P VOLT.	P-P CUR.	3dB BW	O.L. VOLT. GAIN	SLEW RATE	CMRR		CKT.	OUT-LINE Δ=MO
				3 DRFT	4 OFST	OFFSET	BIAS											
		(ΔV)	(W)	(V/°C)	(V)	(A)	(A)	(ΔV)	(Ω)	(ΔV)	(ΔA)	(Hz)	(dB)	(V/uS)	(dB)	-+		
1	RC4101CQ	30 ♦	90m	6.0u†	10m	750n	2.0u	24	150k	24	10kØ	10	83		65	07	A001	FP2k
2	RC4101CT	30 ♦	90m	6.0u†	10m	750n	2.0u	24	150k	24	10kØ	10	83		65	07	A001	TO99
3	007C	30	90m	10u	1.0m§	20n§	150n§	20	500k†	20	10m	2.0MØ†	88	1.0	94	5C		FP1
4	207C	30	90m	10u	1.0m§	20n§	150n§	20	500k†	20	10m	2.0MØ†	88	1.0	94	5C		CN2
5	A3000	30	90m	10u⧄	4.0m§	10n†§	100n§	24	2.0M†	20	10m	1.0MØ	100	500m	80	28		CN1c
6	A3001	30	90m	10u⧄	4.0m§	5.0n†§	50n§	24	2.0M†	20	10m	1.0MØ	100	500m	80	28		CN1c
7	A3002	30	90m	10u⧄	4.0m§	2.5n†§	25n§	24	2.0M†	20	10m	1.0MØ	100	500m	80	28		CN1c
8	9684	30	90m	10u	5.0m	10n	100n	20	2.0M	20	1.0	3.0MØ	94	300m	100	27		MP⧄
9	RC101CD	30 ♦	90m	10u†	10m	500n	2.0u	24	150k	24		100	83		65	07	A012	MP40
10	RC101CQ	30 ♦	90m	10u†	10m	500n	2.0u	24	150k	24		100	83		65	07	A012	FP2k
11	RC101CT	30 ♦	90m	10u†	10m	500n	2.0u	24	150k	24		100	83		65	07	A012	TO99
12	RC4101D	30 ♦	90m	10u†	10m	750n	2.0u	24	150k	24	10kØ	10	83		65	07	A001	MP40
13	RC4101Q	30 ♦	90m	10u†	10m	750n	2.0u	24	150k	24	10kØ	10	83		65	07	A001	FP2k
14	RC4101T	30 ♦	90m	10u†	10m	750n	2.0u	24	150k	24	10kØ	10	83		65	07	A001	TO99
15	ZC741E1	30	90m	15u			75n§	20	2.0M†	20	10m	1.2MØ	100	2.0	80	28	A166	MP238
16	ZC741E6	30	90m	15u			75n§	20	2.0M†	20	10m	1.2MØ	100	2.0	80	5C	A166	MP238
17	008A3	30	90m	15u	1.0m§		5.0p§	20	100G†	20	10m	4.0MØ†	100	3.0	76 †	28		FP1
18	RM4101AD	30 ♦	90m	15u	3.0m	20n	100n	30	4.0M†	24	10kØ		94		80	5C	A090	MP40
19	RM4101AQ	30 ♦	90m	15u	3.0m	20n	100n	30	4.0M†	24	10kØ		94		80	5C	A090	FP2k
20	RM4101AT	30 ♦	90m	15u	3.0m	20n	100n	30	4.0M†	24	10kØ		94		80	5C	A090	TO99
21	ZA802M2	30	90m	20u	5.0m†Δ		5.0p§	20	100G†	20	7.0m	2.0MØ†	100	6.0	100 †	28		MP5bf
22	RC4101AD	30 ♦	90m	20u	6.0m	30u	300u	30	500k	24	10kØ		88		70	07	A090	MP40
23	RC4101AQ	30 ♦	90m	20u	6.0m	30u	300n	30	500k	24	10kØ		88		70	07	A090	FP2k
24	RC4101AT	30 ♦	90m	20u	6.0m	30n	300n	30	500k	24	10kØ		88		70	07	A090	TO99
25	008A	30	90m	25u	1.0m§		5.0p§	20	100G†	20	10m	4.0MØ†	100	3.0	76 †	28		FP1
26	008B	30	90m	25u	1.0m§		10p§	20	100G†	20	10m	4.0MØ†	100	3.0	76 †	28		FP1
27	LM301A	30	90m	30u	10m	70n	300n	24	500k	20	2.0kØ	1.0k	87		70	07		CN1c
28	LM307	30	90m	30u	10m	70n	300n	24	500k	20	2.0kØ	800k	87	500m	70	07		CN1c
29	TOA301AE	30	90m	30u	10m	70n	300n	24	.50M	24	10kØ	100 †	88		70	07	A173a	MP39j
30	TOA307E	30	90m	30u	10m	70n	300n	24	.50M	24	10kØ	10	88		70	07	A173b	MP39j
31	134	30	90m	50u	Δ	20p	100p	14	100G	20	8.0m	1.3M§	112	6.0	60	28		MP6g
32	008C	30	90m	75u	2.0m§		25p§	20	100G†	20	10m	4.0MØ†	100	3.0	76 †	28		FP1
33	134A	30	90m	100u	Δ		100p§	14	100G	20	8.0m	1.3M§	112	6.0	60	28		MP59
34	134D	30	90m	100u	Δ	20p	100p	14	100G	20	8.0m	1.3M§	112	6.0	60	28		MP6g
35	WM101T	30	100m	3.0u	1.0m	40n	.12u	24	800k	26	13m	50	100		90	5C	A012	CN18b
36	709-11-3A	30	108m	25u	3.0m	.25u	.60u	16	350k	24	10kØ	10k†	88	.70	80	5C	A003	FP2d
37#	709-11-36	30	108m	25u	3.0m	250n	600n	16	350k	24	10kØ	10k†	88		80	5C		TO91
38	TOA4709	30	108m	25u	3.0m	.25u	.60u	16	350k	24	10kØ	10k	88	.30 †	80	5C	A003	TO79
39	HA1-2600	30	110m	10u†	4.0m	30n	30n	22	100M	20	20m	12M†Ø	100	4.0	80			MP⧄
40	RA2600-2	30	110m	10u†	4.0m	30n	30n	22	100M	20	20m	12M†Ø	100	4.0	80	5C		TO99
41	RA2600-5	30	110m	10u†	4.0m	30n	30n	22	100M	20	20m	12M†Ø	100	4.0	80	5C		TO86
42	RA2620-5	30	110m	10u†	4.0m	30n	30n	22	100M	20	20m	35M†Ø	100	25	80	5C		TO99
43	RA2600-1	30	110m	15u	4.0m	10n	30n	22	100k	20	30	100	100k	4.0	80	5C		TO86
44	RA2605-2	30	110m	15u†	7.0m	40n	40n	22	40M	20	20m	12M†Ø	100	4.0	74	07		TO99
45	RA2605-5	30	110m	15u†	7.0m	40n	40n	22	40M	20	20m	12M†Ø	100	4.0	74	07		TO86
46	RA2625-5	30	110m	15u†	7.0m	40n	40n	22	40M	20	20m	35M†Ø	100	20	74	07		TO99
47	RA2601-1	30	110m	25u	6.0m	25n	75n	22	40k	20	20	100	70k	4.0	74	07		TO86
48	RA2601-2	30	110m	25u	6.0m	25n	75n	22	40k	20	20	100	70k	4.0	74	07		TO100
49	PP85A	30	120m†		Δ	100n§		22 †	330k†	22 †	4.4m†	2.0MØ	93	600m†	86	28		MP6b
50	KM52	30	120m	1.5u	1.2mΔ	20n†§			300k	22	40m	10M†Ø	100	.60	80	5C		MP6a
51	13303	30	120m	4.0u	Δ		25p§	20	100G	20	10m	1.5M§	109	6.0	86	28		MP6g
52	16103	30	120m	5.0u§	Δ	30n§	150n§	20	200k	20	8.0m	1.5M§	98	6.0	86	28		MP57
53	HB15	30	120m	5.0u	Δ	50p		20	100G	20	20m	1.0MØ	120 †	2.5	74 †	5A		MP5w
54	11604	30	120m	10u	Δ		25n	20	200k	20	10m	2.0M§	94	10		28		MP5ac
55	13304	30	120m	10u	Δ		25p§	20	100G	20	10m	1.5M§	109	6.0	86	28		MP6g
56	16104	30	120m	10u	Δ	20n	150n	20	200k	20	8.0m	1.5M§	100	6.0	70	28		MP57
57	HC15	30	120m	10u	Δ	50p		20	100G	20	20m	1.0MØ	120 †	2.5	74 †	5A		MP5w
58	U5801	30	120m	10u§			200n§	20	200k†	20	40m	1.5MØ	93	1.5 †	60	28		MP5a
59	9710	30	120m	10u	10m	10p	50p	20 †	10G	20 †	20m	20m†§	100	6.0 †	100 †	58		
60	EP85AU	30	120m	18u†	Δ	5.0n†	50n	22	330k	22	4.4m	2.0MØ	106	600m†	87	28		CB1
61	H15	30	120m	20u	Δ	50p		20	100G	20	20m	1.0MØ	120 †	2.5	74 †	5A		MP5w
62	KM45	30	120m†	20u⧄	Δ	20p	40p	20	1.0T†	22 †	11m†	1.0M§†	112	20 Ø	60	28		MP5at
63	KM45H	30	120m†	20u⧄	Δ	20p	40p	20	1.0T†	22 †	40m†	1.0M§†	112	20 Ø	60	28		MP5au
64	KM22	30	120m	20u	6.0m	80n†§			300k	22	40m	10M†Ø	100	.60	74	5C		MP⧄
65	KM32	30	120m	20u	6.0m	80n†§			300k	22	40m	10M†Ø	100	.60	74	5C		MP6c
66	115	30	120m	25u	Δ		350n	20	200k	20	10m	2.0M§	94	10		28		MP6g
67	116⧄	30	120m	25u	Δ		25n	20	200k	20	10m	2.0M§	94	10		28		MP5ac
68	161⧄	30	120m	25u§	Δ	30n§	150n§	20	200k	20	8.0m	1.5M§	98	6.0	86	28		MP57
69	16110	30	120m	25u§	Δ	30n§	150n§	20	200k	20	8.0m	1.5M§	98	6.0	86	28		MP57
70	116D	30	120m	45u	Δ		150n	20	200k	20	8.0m	1.0M§	86	1.2		28		MP5ac
71	HK15	30	120m	45u	Δ	50p		20	100G	20	20m	1.0MØ	120 †	2.5	74 †	5A		MP5w
72	133	30	120m	50u	Δ		25p§	20	100G	20	10m	1.5M§	109	6.0	86	28		MP6g
73	133AC	30	120m	50u	Δ		25p§	20	100G	20	40m	1.5M§	109	6.0	86	28	A053	MP5ac
74	A1029	30	120m	50u	1.0m§		50p§	20	100G	20	10m	20k	100	1.0	80	28	A053b	MP5f
75	A1019	30	120m†	60u	5.0m§		80p§	20	10G	20	10m	20k	100	500m	60	28	A053b	MP5f
76	HZ15	30	120m	100u	Δ	50p		20	100G	20	20m	1.0MØ	120 †	2.5	74 †	5A		MP5w
77	9165	30	120m	300u	10m				30k	10	2.0m	200k	34	30		28		MP⧄
78	ATF402	30	132m†	10u	5.0m§	7.5n§	50n§	22	200k	22	4.4m	2.0MØ	106	10 Ø	80	28	A023	MP31
79	ATF403	30	132m†	10u	7.5m§	10n§	50n§	22	200k	22	4.4m	2.0MØ	100	10 Ø	80	5C	A023	MP31
80	230C	30	135m	100n	10u		50p§	SE	300k	20	8.0m	500kØ	140	200m		28		MP15an
81	P45AU	30	135m	36u	Δ	75n	150n	20	500k	20	40m	100MØ	95	200	60	28		CB1
82	P25A	30	138m†		Δ	150p§		20 †	100G†	22 †	4.4m†	1.5MØ	92	600m†	60	28		CB1a
83	P25C	30	138m	60u⧄	Δ	1.0n		20	100G†	22	4.4m	1.5kØ	103	3.0 †	60	28		
84	PP25C	30	138m	60u⧄	Δ	1.0n		20	100G†	22	4.4m	1.5kØ	103	3.0 †	60	28		
85	EP25AU	30	140m	55u	Δ	50p§	150p§	20	100G	22	4.4m	1.5MØ	103	2.0 †	60	28		CB1
86	105C	30	144m	5.0u	Δ	5.0u§		20 Δ	1.0M	20	5.0m	2.0MØ	89	1.2	80	48		MP5k
87	105B	30	144m	10u	Δ	5.0u§		20 Δ	1.0M	20	5.0m	2.0MØ	89	1.2	80	48		MP5k
88	105A	30	144m	20u	Δ	5.0u§		20 Δ	1.0M	20	5.0m	2.0MØ	89	1.2	80	48		MP5k
89	111	30	144m	20u	Δ	20u§		20 Δ	200k	20	5.0m	1.5MØ	83	1.2	80	48		MP5k
90	KM53SP	30	150m		.85m	1.0u			200k	22	5.0m	2.0MØ	94	.60		28		MP23
91	VA5B155831	30	150m		6.0m	500n	1.5u	24	300k	24	10kØ	1.1M†Ø	93	800m†	70	5C	A042f	TO99
92	VA5B155839	30	150m		6.0m	500n	1.5u	24	300k	24	10kØ	1.1M†Ø	93	800m†	70	5C	A042f	TO99
93	VA6T155831	30	150m		6.0m	500n	1.5u	24	300k	24	10kØ	1.1M†Ø	93	800m†	70	5C	A042f	MP48
94	VA6T155839	30	150m		6.0m	500n	1.5u	24	300k	24	10kØ	1.1M†Ø	93	800m†	70	07	A042f	MP48
95	156	30	150m	1.0u	Δ		2.0n	20	500k	20	20m	1.0M§	106	1.0	80	28	A056	MP6b
96	3144/15	30	150m	1.0u⧄	.15m		5n†§	20 Δ	500k†	20	40m	2.0kØ†	130 †	1.0	80 †	48		MP2
97	KM53	30	150m	1.0u	.85m	20n†§			300k	22	10m	500kØ	94	.60	80	5C		MP6c
98	3145/15	30	150m	2.0u⧄	.20m†§		5n†§	20 Δ	500k†	20	40m	2.0kØ†	130 †	1.0	80 †	48		MP2
99	FA401	30	150m†	2.0u†	700uΔ	10p§	30p§	20	100G	20	40m	5.0mØ	100 †	10	80 †	16		MP5ac
100	3129/15	30	150m	3.0u⧄	.50m†§		10p†§	20 Δ	100G†	20	40m	3.0MØ†	106 †	6.0	60 †	48		MP2
101	3003/13	30	150m	3.0u	.60m⧄		30n⧄	20	500k†	20	40m	1.2MØ	104	1.2	80 †	48		MP1
102	3003/15	30	150m	3.0u	.60m⧄		30n⧄	20	500k†	20	40m	1.2MØ	104	1.2	80 †	48		MP2
103	3003/16	30	150m	3.0u	.60m⧄		30n⧄	20	500k†	20	40m	1.2MØ	104	1.2	80 †	48		MP3
104	3003/26	30	150m	3.0u	.60m⧄		30n⧄	20	500k†	20	40m	1.2MØ	104	1.2	80 †	48		MP4
105	MCH1539G	30	150m	3.0u†	4.0m	75n	500n§	22	150k	20	1.0kØ	300 †	94	4.2 †	80	5C	A093	TO77
106#	WM1709	30	150m	3.0u	6.0m	500n	1.5u	16	150k	24	10kØ	10k†	88	250m†	70	5C	A115	CN11d
107	13203	30	150m	5.0u	Δ	10p	50p§	20	100G	20	10m	4.5M§	106	5.0	74	28	A053	MP6b
108	3004/13	30	150m	5.0u	.80m⧄		30n⧄	20	500k†	20	40m	1.2MØ	100	1.2	80 †	48		MP1
109	3004/15	30	150m	5.0u	.80m⧄		30n⧄	20	500k†	20	40m	1.2MØ	100	1.2	80 †	48		MP2
110	3004/16	30	150m	5.0u	.80m⧄		30n⧄	20	500k†	20	40m	1.2MØ	100	1.2	80 †	48		MP3

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR.@25°C		MIN TRANSFER CHAR @ 25°C				T E M P	C O D E	DRAWINGS	
				OVER OPERATING TEMP. RANGE				MIN.-@25°C											
				MAX VOLTAGE		MAX CURRENT													
		1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	3 DRFT (V/°C)	4 OFST (V)	OFFSET (A)	BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	-+		CKT.	OUT-LINE Δ=MO
1	3004/26	30	150m	5.0u	.80m⍁		30n⍁	20	500k†	20	40m	1.2MØ	100	1.2	80 †	4	8		MP4
2	3020/13	30	150m	5.0u	1.3m⍁		40n⍁	20	500k†	20	20m	1.2MØ	94	1.2		2	8		MP1
3	3020/15	30	150m	5.0u	1.3m⍁		40n⍁	20	500k†	20	20m	1.2MØ	94	1.2		2	8		MP2
4	3020/16	30	150m	5.0u	1.3m⍁		40n⍁	20	500k†	20	20m	1.2MØ	94	1.2		2	8		MP3
5	3020/26	30	150m	5.0u	1.3m⍁		40n⍁	20	500k†	20	20m	1.2MØ	94	1.2		2	8		MP4
6	3007/13	30	150m	5.0u	2.3m⍁		90n⍁	20	500k†	20	10m	2.0M†Ø	94	1.2		4	8		MP1
7	3007/15C	30	150m	5.0u	2.3m⍁		90n⍁	20	500k†	20	10m	2.0M†Ø	94	1.2		4	8		MP2
8	3007/16	30	150m	5.0u	2.3m⍁		90n⍁	20	500k†	20	10m	2.0M†Ø	94	1.2		4	8		MP3
9	3007/26	30	150m	5.0u	2.3m⍁		90n⍁	20	500k†	20	10m	2.0M†Ø	94	1.2		4	8		MP4
10	811BJ	30	150m	5.0u†§	10m§	250n	1.5u	20	100k	20	5.0kØ		80		70	5	C	A021	MP147
11	132	30	150m	10u	Δ	10p	50p§	20	100G	20	10m	4.5M§	106	5.0	74	2	8	A053	MP6b
12	132A	30	150m	10u	Δ	10p	50p§	20	100G	20	10m	4.5M§	106	5.0	74	2	8	A053	MP5ac
13	13215	30	150m	10u	Δ		10p§	20	100G	20	10m	4.5M§	103	5.0	73	2	8	A053	MP6b
14	16204	30	150m	10u§	Δ	10p§	50p§	20	1.0M	20	8.0m	4.0M§	86	5.0	73	2	8		MP57
15	CIA2	30	150m	10u	Δ	2.0n§	60n§	22	1.0M	20	4.0m	1.5MØ	95	600m	86	2	8		
16	3130/15	30	150m	10u⍁	.50m†§		10p†§	20 Δ	100G†	20	40m	3.0MØ†	106 †	6.0	60 †	4	8		MP2
17	3065/15	30	150m	10u§	1.0m⍁		15n⍁	20	1.0M	20	40m	500kØ	94	600n	80 †	4	8		MP⍁
18	1506/13	30	150m†	10u	1.1m⍁	40n⍁		20	500k†	20	40m	1.0MØ	100	2.0 †		4	8		MP1
19	1506/15	30	150m†	10u	1.1m⍁	40n⍁		20	500k†	20	40m	1.0MØ	100	2.0 †		4	8		MP2
20	1506/16	30	150m†	10u	1.1m⍁	40n⍁		20	500k†	20	40m	1.0MØ	100	2.0 †		4	8		MP3
21	1506/26	30	150m†	10u	1.1m⍁	40n⍁		20	500k†	20	40m	1.0MØ	100	2.0 †		4	8		MP4
22	1901/19	30	150m	10u	1.1m⍁	40n⍁		20	500k†	20	40m	1.0MØ	100	1.2		4	8		MP16
23	3005/13	30	150m	10u	1.5m⍁		40n⍁	20	500k†	20	40m	1.0MØ	96	1.2	80 †	4	8		MP1
24	3005/15	30	150m	10u	1.5m⍁		40n⍁	20	500k†	20	40m	1.0MØ	96	1.2	80 †	4	8		MP2
25	3005/16	30	150m	10u	1.5m⍁		40n⍁	20	500k†	20	40m	1.0MØ	96	1.2	80 †	4	8		MP3
26	3005/26	30	150m	10u	1.5m⍁		40n⍁	20	500k†	20	40m	1.0MØ	96	1.2	80 †	4	8		MP4
27	3019/13	30	150m	10u	1.5m⍁		40n⍁	20	500k†	20	40m	1.0MØ	96	1.2		4	8		MP1
28	3019/15	30	150m	10u	1.5m⍁		40n⍁	20	500k†	20	40m	1.0MØ	96	1.2		4	8		MP2
29	3019/16	30	150m	10u	1.5m⍁		40n⍁	20	500k†	20	40m	1.0MØ	96	1.2		4	8		MP3
30	3019/26	30	150m	10u	1.5m⍁		40n⍁	20	500k†	20	40m	1.0MØ	96	1.2		4	8		MP4
31	KM23M	30	150m	10u	1.8m	40n†§			300k	22	10m	5.0M†Ø	94		80	5	C		MP24
32	3021/13	30	150m	10u	2.5m⍁		70n⍁	20	500k†	20	20m	1.0MØ	90	1.0		2	8		MP1
33	3021/15	30	150m	10u	2.5m⍁		70n⍁	20	500k†	20	20m	1.0MØ	90	1.0		2	8		MP2
34	3021/16	30	150m	10u	2.5m⍁		70n⍁	20	500k†	20	20m	1.0MØ	90	1.0		2	8		MP3
35	3021/26	30	150m	10u	2.5m⍁		70n⍁	20	500k†	20	20m	1.0MØ	90	1.0		2	8		MP4
36	3008/13	30	150m	10u	3.5m⍁		105p⍁	20	500k†	20	10m	1.0MØ	90	.90	80 †	4	8		MP1
37	3008/15C	30	150m	10u	3.5m⍁		105p⍁	20	500k†	20	10m	1.0MØ	90	.90	80 †	4	8		MP2
38	3008/16	30	150m	10u	3.5m⍁		105p⍁	20	500k†	20	10m	1.0MØ	90	.90	80 †	4	8		MP3
39	3008/26	30	150m	10u	3.5m⍁		105p⍁	20	500k†	20	10m	1.0MØ	90	.90	80 †	4	8		MP4
40	1615	30	150m†	15u	Δ	25n†	50n	20 †	200k†	20	20m	1.5MØ	100	1.5	86	2	8		MP5y
41	1305A	30	150m†	15u§	1.0mΔ⍁		50n⍁	20	500k†	20	40m	1.0M§	110	1.0		4	8		MP⍁
42	3018/13	30	150m	15u	1.8m⍁		200p§	20	100G†	20	40m	1.0M§	106	3.0		4	8		MP1
43	3018/15	30	150m	15u	1.8m⍁		200p§	20	100G†	20	40m	1.0M§	106	3.0		4	8		MP2
44	3018/16	30	150m	15u	1.8m⍁		200p§	20	100G†	20	40m	1.0M§	106	3.0		4	8		MP3
45	3018/26	30	150m	15u	1.8m⍁		200p§	20	100G†	20	40m	1.0M§	106	3.0		4	8		MP4
46	1706/17	30	150m	15u	2.0m⍁	70n⍁		20	500k†	20	20m	800kØ	96	.60		4	8		MP15
47	132AD	30	150m	20u	Δ		100p§	20	10G	20	8.0m	1.0M§	100	2.0	70	2	8	A053	MP5ac
48	132D	30	150m	20u	Δ		100p§	20	10G	20	8.0m	1.0M§	100	2.0	70	2	8	A053	MP6b
49	154C	30	150m	20u	Δ		25n	20	500k	20	40m	1.0M§	100	7.0	80	2	8	A053	MP5s
50	165	30	150m	20u§	Δ	5.0n§	50n§	20	1.0M	20	10m	1.5M§	93	6.0	86	2	8		MP57
51	1650	30	150m†	20u	Δ	25n†	50n	20 †	200k†	20	20m	5.0M	100	10	86	2	8		MP5y
52	ZEL1A	30	150m†	20u	Δ		50n§	20	1.0M†	20	10m	1.5M†Ø	113	6.0	86	2	8		MP5bq
53	16210	30	150m	20u	1.0m	10p	50p	20	10M	20	8.0m	4.0M§	106	5.0	72	2	8		MP57
54	3006/13	30	150m	20u	3.0m⍁		80n⍁	20	500k†	20	40m	800kØ	90	.90	80 †	4	8		MP1
55	3006/15	30	150m	20u	3.0m⍁		80n⍁	20	500k†	20	40m	800kØ	90	.90	80 †	4	8		MP2
56	3006/16	30	150m	20u	3.0m⍁		80n⍁	20	500k†	20	40m	800kØ	90	.90	80 †	4	8		MP3
57	3006/26	30	150m	20u	3.0m⍁		80n⍁	20	500k†	20	40m	800kØ	90	.90	80 †	4	8		MP4
58	KM23	30	150m	20u	3.0m	50n†§			300k	22	10m	5.0M†Ø	98	.60	74	5	C		MP⍁
59	KM33	30	150m	20u	3.0m	50n†§			300k	22	10m	5.0M†Ø	98	.60	74	5	C		MP6c
60	3022/13	30	150m	20u	4.0m⍁		.11u⍁	20	500k†	20	20m	800kØ	86	.60	80 †	2	8		MP1
61	3022/15	30	150m	20u	4.0m⍁		.11u⍁	20	500k†	20	20m	800kØ	86	.60	80 †	2	8		MP2
62	3022/16	30	150m	20u	4.0m⍁		.11u⍁	20	500k†	20	20m	800kØ	86	.60	80 †	2	8		MP3
63	3022/26	30	150m	20u	4.0m⍁		.11u⍁	20	500k†	20	20m	800kØ	86	.60	80 †	2	8		MP4
64	3009/13	30	150m	20u	5.0m⍁		130p⍁	20	500k†	20	10m	1.0M†Ø	86	.60		4	8		MP1
65	3009/15C	30	150m	20u	5.0m⍁		130p⍁	20	500k†	20	10m	1.0M†Ø	86	.60		4	8		MP2
66	3009/16	30	150m	20u	5.0m⍁		130p⍁	20	500k†	20	10m	1.0M†Ø	86	.60		4	8		MP3
67	3009/26	30	150m	20u	5.0m⍁		130p⍁	20	500k†	20	10m	1.0M†Ø	86	.60		4	8		MP4
68	820	30	150m	25u	Δ	5.0n§	50n§	20	1.0M	20	10m	1.5MØ	113	6.0	86	2	8		MP58
69	KM33SP	30	150m	27u	3.0m	1.0u			200k	22	5.0m	2.0MØ	88	.60		2	8		MP6c
70	KM43SP	30	150m	27u	3.0m	1.0u			200k	22	5.0m	2.0MØ	88	.60		2	8		MP6c
71	1516/13	30	150m†	30u	2.1m⍁	135n⍁		20	200k†	20	20m	1.0M†Ø	90	1.0 †		2	8		MP1
72	1516/15	30	150m†	30u	2.1m⍁	135n⍁		20	200k†	20	20m	1.0MØ†	90	1.0 †		2	8		MP2
73	1516/16	30	150m†	30u	2.1m⍁	135n⍁		20	200k†	20	20m	1.0M†Ø	90	1.0 †		2	8		MP3
74	1516/26	30	150m†	30u	2.1m⍁	135n⍁		20	200k†	20	20m	1.0M†Ø	90	1.0 †		2	8		MP4
75	830	30	150m	50u	Δ	10p§	25p§	20	100G	20	10m	1.5MØ†	109	6.0	66	2	8		MP58
76	809BJ	30	150m	50u§	10m§	500n	1.5u	20	100k	20	5.0kØ	300 †	80		70	5	C	A019	MP147
77	810BJ	30	150m	50u§	10m§	10u§	1.5u	20	100k	20	5.0kØ	1.0k†	80		90 †	5	C	A021a	MP25
78	P25AU	30	150m	55u	Δ	50p	100n	20	10G	20	4.4m	1.5MØ	92	600m	60	2	8		CB1
79	KM47B	30	150m	65u	Δ	20p		20 Δ	1.0T	20	200m	750k§	104	15 Ø	60	0	7		MP5r
80	114C	30	160m	5.0u	Δ	2.0n§	2.0n§	20 Δ	4.0M	20	20m	500kØ	114	120m	80	2	8		MP8c
81	L114C	30	160m	5.0u	Δ	2.0n§		20 Δ	4.0M	20	10m	500kØ	114	120m	80	4	8		MP8b
82	114A	30	160m	10u	Δ	2.0n§	2.0n§	20 Δ	4.0M	20	20m	500kØ	114	120m	80	2	8		MP8c
83	114B	30	160m	10u	Δ	2.0n§	2.0n§	20 Δ	4.0M	20	20m	500kØ	114	120m	80	2	8		MP8c
84	L114A	30	160m	10u	Δ	2.0n§		20 Δ	4.0M	20	10m	500kØ	114	120m	80	4	8		MP8b
85	L114B	30	160m	10u	Δ	2.0n§		20 Δ	4.0M	20	10m	500kØ	114	120m	80	4	8		MP8b
86	MH1A709	30 ♦	165m		5.0m	200n	500n	16	150k	20	2.0kØ	1.0M†Ø	88	250m†	70	5	C		MP159
87	KM62SP	30	165m		6.0m	1.2u			200k	22	4.4m	20MØ	86	5.0		2	8		MP23
88	KM51	30	165m	1.0u	.85m	1.0n†§			2.5M	22	5.0m	2.5M†Ø	87	.50	80	5	C		MP6a
89	KM41	30	165m†	3.0u	Δ	20p	40p	20	1.0T†	22 †	4.4m†	5.0M§†	106	40 Ø	60	5	C		MP6d
90	KM42L	30	165m†	3.0u	Δ	20p	40p	20	1.0T†	22 †	40m†	10M§†	106	150 Ø	60	5	C		MP23a
91	709BN	30	165m	3.0u†	6.0m	500n	1.5u	16	150k	24	10kØ	1.0MØ	88		70	5	C	A043	TO116
92	PA7709-31	30	165m	3.0u†	6.0m	.50u	1.5u	16	150k	24	10kØ	10k†	88	200 Ø†	70	5	C	A003	CN1
93	PD7709-31	30	165m	3.0u†	6.0m	.50u	1.5u	16	150k	24	10kØ	10k†	88	200 Ø†	70	5	C	A003	MP⍁
94	PL7709-31	30	165m	3.0u†	6.0m	.50u	1.5u	16	150k	24	10kØ	10k†	88	200 Ø†	70	5	C	A003	FP2c
95	ULN2709M	30	165m	3.0u†	6.0m	500n	1.5u	16	150k	20	2.0kØ		87		70	0	7	A081	MP48
96#	709-1-36	30	165m	6.0u†	6.0m	500n	1.5u	16	150k	24	10kØ	10k†	88		70	5	C		TO91
97#	709B4	30	165m	6.0u†	6.0m	.50u	1.5u	16	150k	20	2.0kØ		88		70	5	C	A003	TO99
98#	709B4P	30	165m	6.0u†	6.0m	.50u	1.5u	16	150k	20	2.0kØ		88		70	5	C	A003	TO91
99	DM709D	30	165m	6.0u†	6.0m	.50u	1.5u	16	150k	20	2.0kØ	1.0M	88		70	5	C		MP14b
100	DM709F	30	165m	6.0u†	6.0m	.50u	1.5u	16	150k	20	2.0kØ	1.0M	88		70	5	C		FP2a
101	DM709T	30	165m	6.0u†	6.0m	.50u	1.5u	16	150k†	20	2.0kØ	1.5MØ	88		70	5	C		CN1b
102	LA709G	30	165m	6.0u†	6.0m	500n	1.5u	3.0	150k	16	♦	200k	100	250m†	70	5	C	A003	CN1c
103	LM709F	30	165m	6.0u†	6.0m	500n	1.5u	16 Δ	150k	24		5.0MØ	88	250m†	70	5	C	A003	FP2
104	RM709	30	165m	6.0u	6.0m	.50u	1.5u	16	150k	24	10kØ	10k†	88		70	5	C	A003	CN1a
105#	TL2709	30	165m	6.0u†	6.0m	500n⍁	1.5u⍁	16	150k	24	10kØ	10k	88	250m†	70	5	C	A043	TO116
106	TOA1709	30	165m	6.0u†	6.0m	.50u	1.5u	16	150k	24	10kØ	10k	88	.30 †	70	5	C	A003	TO79
107	TOA3709	30	165m	6.0u†	6.0m	.50u	1.5u	16	150k	24	10kØ	10k	88	.30 †	70	0	7	A003	TO79
108	TOA3709E	30	165m	6.0u	6.0m	500n	1.5u	16	150k	24	10kØ	10	88	500m	70	0	7	A003	TO116
109	TOA6809	30	165m	6.0u†	6.0m	10n	30n	16	10M	24	10kØ	10k	88	.30 †	70	5	C		TO79
110	TOA6809F	30	165m	6.0u†	6.0m	10n	30n	16	10M	24	10kØ	10k	88	.30 †	70	5	C		TO91

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR.@25°C		MIN TRANSFER CHAR @ 25°C				TEMP CODE	DRAWINGS	
		1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	OVER OPERATING TEMP. RANGE				MIN.-@25°C		P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	-+	CKT.	OUT-LINE Δ=MO
				MAX VOLTAGE		MAX CURRENT		CM RANGE (ΔV)	DIFF IMP. (Ω)									
				3 DRFT (V/°C)	4 OFST (V)	OFFSET (A)	BIAS (A)											
1	TOA6809P	30	165m	6.0u†	6.0m	10n	30n	16	10M	24	10kØ	10k	88	.30 †	70	5C		TO116
2	TOA7709	30	165m	6.0u†	6.0m	30n	90n	16	3.0M	24	10kØ	10k	88	.30 †	70	5C	A003	TO79
3	TOA7809	30	165m	6.0u†	6.0m	6.0n	12n	16	25M	24	10kØ	10k	88	.30 †	70	5C	A003	TO79
4#	SFC2102M	30	165m	6.0u†§	7.5m	100n			10G	20		1.0MØ	0.0	10 †		5C	A002	TO99
5	EP55AU	30	165m†	10u§	Δ	50n§		20 †	200k†	22 †	4.4m†	1.5MØ	86	1.5 †	85	28		CB1
6	P65AHU	30	165m	10u	Δ	10n	100n	20	600k	22	4.4m	20MØ	92	5.0	60	28		CB1
7	PF55AU	30	165m†	10u§	Δ	200n§		20 †	200k†	22 †	4.4m†	1.5MØ	86	1.5 †	85	28		MP5bb
8#	SFC2202	30	165m	15u†§	15m	50n			10G	20		1.0MØ	0.0	10 †		28	A002	TO99
9	LM302	30	165m	20u†§	20m	30n			1.0G	20 †		1.0MØ	0.0	10		07	A002	CN1a
10#	SFC2302	30	165m	20u†§	20m	50n			1.0G	20		1.0MØ	0.0	10 †		07	A002	TO99
11	KM42	30	165m†	25u	Δ	20p	40p	20	1.0T†	22 †	40m†	10M§†	106	150 Ø	60	5C		MP23a
12	KM43	30	165m†	25u	Δ	20p	40p	20	1.0T†	22 †	4.4m†	5.0M§†	106	40 Ø	60	5C		MP6d
13	KM21	30	165m	25u	3.0m	2.0n†§			2.5M	22	5.0m	5.0M†Ø	87	.50	74	5C		MP6c
14	KM31	30	165m	25u	3.0m	2.0n†§			2.5M	22	5.0m	5.0M†Ø	87	.50	74	5C		MP6c
15	P65AH	30	165m	36u	Δ	50n		20	300k†	22	4.4m	20MØ	105	5.0 †	60	28		
16	P65C	30	165m	36u	Δ	50n		10	300k†	22	4.4m	1.5MØ	105	1.5 †	50	28		
17	P65CH	30	165m	36u	Δ	50n		10	300k†	22	4.4m	20MØ	105	5.0 †	60	28		
18	PP65C	30	165m	36u	Δ	50n		10	300k†	22	4.4m	1.5MØ	105	1.5 †	50	28		
19	KM43H	30	165m	40u	4.5uΔ	20p		20 Δ	10T	22	4.4m	5.0M§	106		60	5C		MP6d
20	KM61	30	168m	25u	6.0m	80n†§			250k	22	40m	100M†Ø	96	200	74	5C		MP⧄
21	KM62	30	168m	25u	6.0m	80n†§			200k	22	40m	25M†Ø	94	5.0	74	5C		MP⧄
22	RM4741D*	30 ♦	170m		6.0m	500n	1.5u	24	1.0M†	24	10kØ		94	.50 †	70	5C	A042	MP40
23	RM4741J*	30 ♦	170m		6.0m	500n	1.5u	24	1.0M†	24	10kØ		94	.50 †	70	5C	A042	FP6a
24	RC4741D	30 ♦	170m		7.5m	300n	800n	24	1.0M†	24	10kØ		86	.50 †	70	07	A042	MP40
25	RC4741J	30 ♦	170m		7.5m	300n	800n	24	1.0M†	24	10kØ		86	.50 †	70	07	A042	FP6a
26	VA5B145831	30	170m		7.5m	300n	800n	24	300k	24	10kØ	1.1M†Ø	86	800m†	70	5C	A042f	TO99
27	VA5B145839	30	170m		7.5m	300n	800n	24	300k	24	10kØ	1.1M†Ø	86	800m†	70	5C	A042f	TO99
28	VA6T145831	30	170m		7.5m	300n	800n	24	300k	24	10kØ	1.1M†Ø	86	800m†	70	07	A042f	MP48
29	VA6T145839	30	170m		7.5m	300n	800n	24	300k	24	10kØ	1.1M†Ø	86	800m†	70	07	A042f	MP48
30	VA6T74731	30	170m		7.5m	300n	800n	24	300k	24		1.1M†Ø	86	800m†	70	07	A042f	MP48
31	VA6T74739	30	170m		7.5m	300n	800n	24	300k	24		1.1M†Ø	86	800m†	70	07	A042f	MP48
32	KM51SP	30	180m		.85m	.20u			1.5M	22	4.4m	4.0MØ	100	.50		28		MP23
33	749BH*	30	180m	3.0u†	1.0m†	50n†	300n†	30 Δ	150k†	28	2.5k	1.0MØ	86 †	2.0 †	90 †	5C	A113	FP⧄
34	749BN*	30	180m	3.0u†	1.0m†	50n†	300n†	30 Δ	150k†	28	2.5k	1.0MØ	86 †	2.0 †	90 †	5C	A113	TO99
35	749CN*	30	180m	3.0u†	1.0m†	50n†	300n†	30 Δ	150k†	28	2.5k	1.0MØ	86 †	2.0 †	90 †	07	A113	TO116
36	3241/12C	30	180m	3.0u⧄	1.0m§		640p		1.0T†	20	20m	1.0MØ	90	6.0	60 †	48		MP5
37	3114/12C	30	180m	5.0u⧄	.50m†§		10p†§	20 Δ	100G†	20	20m	3.0MØ†	100 †	6.0	60 †	48		MP5f
38	PP65AH	30	180m	10u†§	Δ	10n†§	300n	20	600k	22	4.4m	20MØ	105	5.0	60	28		MP6b
39	3068/17	30	180m	10u	.30m†§		5n†§	22 Δ	300k†	20	20m	1.5M†Ø	100 †	1.2	80 †	48		MP15
40	9314	30	180m	10u§	5.0m§	100n§	500n§	16	100k	20	20m	60MØ	83	30	65	5C	A071	CN20
41	9308	30	180m	10u§	7.5m§	200n§	500n§	16	100k	20	3.0kØ	120M§	86	60		57	A072	CN20
42	3062/15	30	180m	15u⧄	.50m†§		20p†§	20 Δ	100G†	20	20m	1.5M†Ø	106	6.0	100	48		MP2
43	3115/12C	30	180m	15u⧄	.50m†§		10p†§	20 Δ	100G†	20	20m	3.0MØ†	100 †	6.0	60 †	48		MP5f
44	1525/13	30	180m	15u	2.0m⧄	40n⧄		20	500k†	20	40m	10MØ	96	30		48		MP1
45	1525/16	30	180m	15u	2.0m⧄	40n⧄		20	500k†	20	40m	10MØ	96	30		48		MP3
46	1525/25	30	180m	15u	2.0m⧄	40n⧄		20	500k†	20	40m	10MØ	96	30		48		MP2a
47	1525/26	30	180m	15u	2.0m⧄	40n⧄		20	500k†	20	40m	10MØ	96	30		48		MP4
48	1701/17	30	180m	15u	2.7m⧄	90n⧄		20	300k†	20	20m	1.5MØ	86	3.0		48		MP15
49	CHA1	30	180m	20u⧄	Δ	20n	300u§	20	200k	20	4.0m	1.0M§	80	300m	70	58		MP30
50	DA1a	30	180m	20u	Δ	25n§		22	100k†	20	6.0m	1.5MØ†	89			28		MP9
51	LA1	30	180m	20u	Δ	25n§		22	100k†	20	6.0m	1.5MØ†	89			28		MP8b
52	QA1	30	180m	20u	Δ	25n§		22	100k†	20	6.0m	1.5MØ†	89			28		MP6m
53	3014-13	30	180m	20u	2.0m⧄		80n⧄	SE	500k†	20	40m	6.0MØ	94	30		48		MP1
54	3014-15	30	180m	20u	2.0m⧄		80n⧄	SE	500k†	20	40m	6.0MØ	94	30		48		MP2
55	3014-16	30	180m	20u	2.0m⧄		80n⧄	SE	500k†	20	40m	6.0MØ	94	30		48		MP3
56	3014-26	30	180m	20u	2.0m⧄		80n⧄	SE	500k†	20	40m	6.0MØ	94	30		48		MP4
57	RA2500-2	30	180m	20u†	8.0m	50n	400n	22	25M	20	20m	12M†Ø	86	25	80	5C		TO99
58	RA2500-5	30	180m	20u†	8.0m	50n	400n	22	25M	20	20m	12M†Ø	86	25	80	5C		TO86
59	RA2510-2	30	180m	20u†	11m	50n	400n	22	50M	20	20m	12M†Ø	80	50	80	5C		TO99
60	RA2510-5	30	180m	20u†	11m	50n	400n	22	50M	20	20m	12M†Ø	80	50	80	5C		TO86
61	RA2520-2	30	180m	20u†	11m	50n	400n	22	50M	20	20m	18M†Ø	80	100	80	5C		TO99
62	RA2520-5	30	180m	20u†	11m	50n	400n	22	50M	20	20m	18M†Ø	80	100	80	5C		TO86
63	116C	30	180m	25u	Δ		25n	20	200k	20	40m	2.0M§	84	6.0		25		MP5ac
64	3015/13	30	180m	25u	2.5m⧄		80n⧄	20	500k†	20	100m	1.0MØ	94	.60		48		MP1
65	3015/15	30	180m	25u	2.5m⧄		80n⧄	20	500k†	20	100m	1.0MØ	94	.60		48		MP2
66	3015/16	30	180m	25u	2.5m⧄		80n⧄	20	500k†	20	100m	1.0MØ	94	.60		48		MP3
67	3015/26	30	180m	25u	2.5m⧄		80n⧄	20	500k†	20	100m	1.0MØ	94	.60		48		MP4
68	KM21SP	30	180m	27u	3.0m	.20u			1.5M	22	4.4m	4.0MØ	100	.50		28		MP6c
69	KM31SP	30	180m	27u	3.0m	.20u			1.5M	22	4.4m	4.0MØ	100	.50		28		MP6c
70	3116/12C	30	180m	30u⧄	1.0m†§		10p†§	20 Δ	100G†	20	20m	3.0MØ†	100 †	6.0	60 †	48		MP5f
71	RA2500-1	30	180m	30u	3.0m	25n	400n	22	25k	20	40	600	20k	25	80	5C		TO86
72	RA2510-1	30	180m	30u	3.0m	25n	400n	22	5.0k	20	40	600	10k	50	80	5C		TO86
73	RA2520-1	30	180m	30u	3.0m	25n	400n	22	50k	20	40	1.0k	10k	100	80	5C		TO86
74	1752/17	30	180m	30u	3.5m⧄	50p§		20	100G†	20	20m	1.0MØ	90	6.0	60 †	48		MP15
75	3034/17	30	180m	30u§	4.0mΔ⧄		7.0n	20	1.0T†	20	20m	5.0MØ	86	12	60 †	48		MP15
76	RA2505-2	30	180m	30u†	10m	100n	500n	22	20M	20	20m	12M†Ø	84	20	74	07		TO99
77	RA2505-5	30	180m	30u†	10m	100n	500n	22	20M	20	20m	12M†Ø	84	20	74	07		TO86
78	RA2515-2	30	180m	30u†	14m	100n	500n	22	40M	20	20m	12M†Ø	78	40	74	07		TO99
79	RA2515-5	30	180m	30u†	14m	100n	500n	22	40M	20	20m	12M†Ø	78	40	74	07		TO86
80	RA2525-2	30	180m	30u†	14m	100n	500n	22	40M	20	20m	18M†Ø	78	80	74	07		TO99
81	RA2525-5	30	180m	30u†	14m	100n	500n	22	40M	20	20m	18M†Ø	78	80	74	07		TO86
82	116BC	30	180m	35u	Δ		100n	20	200k	20	40m	2.0M§	80	1.2		25		MP5ac
83	RA2501-1	30	180m	40u	4.0m	50n	500n	22	20k	20	40	600	16k	20	74	07		TO86
84	RA2501-2	30	180m	40u	4.0m	50n	500n	22	20k	20	40	600	16k	20	74	07		TO100
85	RA2511-1	30	180m	40u	4.0m	50n	500n	22	40k	20	40	600	8.0k	40	74	07		TO86
86	RA2511-2	30	180m	40u	4.0m	50n	500n	22	40k	20	40	600	8.0k	40	74	07		TO100
87	RA2521-1	30	180m	40u	4.0m	50n	500n	22	40k	20	40	1.0k	8.0k	80	74	07		TO86
88	RA2521-2	30	180m	40u	4.0m	50n	500n	22	40k	20	40	1.0k	8.0k	80	74	07		TO100
89	S52	30	180m	40u§	5.0m	1.0u§		22	50k	20	4.0m	1.0MØ	80	600m†	72	2A		MP14
90	T52	30	180m	40u§	5.0m	1.0u§		22	50k	20	4.0m	1.0MØ	80	600m†	72	2A		TO99
91	9728	30	180m	100u	10m	30p	100p	6.0 †	10G	20 †	60m	1.0G†§	80	1.0k†	90 †	57		
92	115C	30	192m	5.0u	Δ	2.0n§	12n§	20 Δ	4.0M	20	2.5m	500k	100	120m	80			MP5k
93	115B	30	192m	10u	Δ	2.0n§	12n§	20 Δ	4.0M	20	2.5m	500k	100	120m	80			MP5k
94	115A	30	192m	20u	Δ	2.0n§	12n§	20 Δ	4.0M	20	2.5m	500k	100	120m	80			MP5k
95#	WC1709	30	195m		10m	750n	2.0u	16	50k	24	10kØ	10k†	83	250m†	65	07	A115	CN11d
96	MC8	30	195m	10u	Δ	20n		22	200k	22	4.4m	5.0MØ	95 †	1.1	97 †	5A		MP27
97	M8	30	195m	20u	Δ	20n		22	200k	22	4.4m	5.0MØ	95 †	1.1	97 †	5A		MP27
98	LM709CF	30	198m	6.0u†	7.5m	.50u	1.5u	16	50k	26 †		5.0MØ	100	.25	65	07		
99	LA709C-M	30	198m	12u	10m	750n	2.0u	3.0	50k	16	♦	200k	100	250m†	65	07	A003	MP⧄
100	LA709CF	30	198m	12u	10m	750n	2.0u	3.0	50k	16	♦	200k	100	250m†	65	07	A003	TO91
101	LA709CG	30	198m	12u	10m	750n	2.0u	3.0	50k	16	♦	200k	100	250m†	65	07	A003	CN1c
102	NE517A	30	200m		5.0m	1.5u	5.0u	24	25k	20	2.0kØ	10k	78	.30	70	07	A059	TO116
103	NE517Q	30	200m		5.0m	1.5u	5.0u	24	25k	20	2.0kØ	10k	78	.30	70	07	A059	FP7b
104	SE517Q	30	200m		5.0m	1.5u	5.0u	24	25k	20	2.0kØ	10k	78	.30	70	5C	A059	FP7b
105#	709-9-6E	30	200m		10m	750n	2.0u	16	50k	24	10kØ	10k†	83		65	07		MP39
106#	709-9-36	30	200m		10m	750n	2.0u	16	50k	24	10kØ	10k†	83		65	07		TO91
107	709CN	30	200m		10m	1.5u§	500n§	16	50k	24	10kØ	1.0MØ	83		65	07	A043	TO116
108	RM709BD	30 ♦	200m		10m	750n	2.0u	20	250k†	24	10kØ		83		65	5C	A003	MP40
109	RM709BQ	30 ♦	200m		10m	750n	2.0u	20	250k†	24	10kØ		83		65	5C	A003	FP2k
110	RM709BT	30 ♦	200m		10m	750n	2.0u	20	250k†	24	10kØ		83		65	5C	A003	TO99

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR.@25°C		MIN TRANSFER CHAR @ 25°C				T C E O M D P E -+	DRAWINGS	
				OVER OPERATING TEMP. RANGE				MIN.-@25°C										
				MAX VOLTAGE		MAX CURRENT												
		1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	3 DRFT (V/°C)	4 OFST (V)	OFFSET (A)	BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)		CKT.	OUT-LINE Δ=MO
1	ULN2709CM	30	200m		10m	750n	2.0u	16	50k	20	2.0kØ		83		65	07	A081	MP48
2	uA709B-3F	30	200m		12m	1.2u	3.0u	16	50k	20	2.0kØ		83		65	5C	A003	TO91
3	MCH1439G	30	200m	3.0u†	7.5m§	150m	1.0u§	22	100k	20	2.0kØ	300 †	83	4.2 †	80	07	A093	TO77
4	MC1709CP	30	200m	3.0u†	10m	750n	1.5u§	16	50k	24	10kØ	7.0k	83	250m†	65	07	A043	MP25a
5	PA7709-39	30	200m	3.0u†	10m	.75u	2.0u	16	50k	24	10kØ	500k§†	84		65	07	A003	CN1
6	PD7709-39	30	200m	3.0u†	10m	.75u	2.0u	16	50k	24	10kØ	500k§†	84		65	07	A003	MP⧄
7	PL7709-39	30	200m	3.0u†	10m	.75u	2.0u	16	50k	24	10kØ	500k§†	84		65	07	A003	FP2c
8	TOA2709	30	200m	3.0u†	10m	.75u	2.0u	16	50k	24	10kØ	10k	84	.30 †	65	07	A003	TO79
9	TOA2709E	30	200m	3.0u	10m	750n	2.0u	16	50k	24	10kØ	10	84	300m	65	07	A003	TO116
10	DC709D	30	200m	6.0u†	10m	.75u	2.0u	16	50k	20	2.0kØ	1.0M	84		65	07		MP14b
11	DC709F	30	200m	6.0u†	10m	.75u	2.0u	16	50k	20	2.0kØ	1.0M	84		65	07		FP2a
12	DC709T	30	200m	6.0u†	10m	.75u	2.0u	16	50k	20	2.0kØ	1.5MØ	84		65	07		CN1b
13#	TL2709C	30	200m	6.0u†	10m	750n	2.0u	160	50k	24	10kØ	10k	83	250m†	65	07	A043	TO116
14	TOA8709	30	200m	6.0u†	10m	30n	90n	16	1.0M	24	10kØ	10k	84	.30 †	65	07	A003	TO79
15	TOA8709E	30	200m	6.0u	10m	30n	90n	16	1.0M	24	10kØ	10	84	300m	65	07	A010	TO116
16	TOA8809	30	200m	6.0u†	10m	10n	30n	16	5.0M	24	10kØ	10k	80	.30 †	65	07	A003	TO79
17	TOA8809E	30	200m	6.0u	10m	10n	30n	16	5.0M	24	10kØ	10	80	300m	65	07	A010	TO116
18	207A1	30	210m	1.0u§	200u§	20n	75n§	22	500k†	20	10m	2.0MØ	100	2.0	94	5C		CN2
19	207A2	30	210m	2.0u§	200u§	20n	75n§	22	500k†	20	10m	2.0MØ	100	2.0	94	5C		CN2
20	109A1	30	210m	5.0u§	500u§		1.0n§	22	4.0M†	20	10m	4.0MØ	112	4.0	92 †	28		MP72
21	207B1	30	210m	5.0u§	500u§	20n	75n§	22	500k†	20	10m	2.0MØ	100	2.0	94	5C		CN2
22	1681	30	210m†	10u	Δ	13n†	50n	20 †	1.0M†	20	6.0m	1.5MØ	90	1.0	80	28		MP5y
23	3044/15	30	210m	10u⧄	.30m†§		5.0n†§	20 Δ	500k†	22	20m	2.0M†Ø	110	1.0	100	48		MP2
24	109A2	30	210m	10u§	500u§		1.0n§	22	4.0M†	20	10m	4.0MØ	112	4.0	92 †	28		MP72
25	207C1	30	210m	10u§	1.0m§	20n	75n§	22	500k†	20	10m	2.0MØ	100	2.0	94	5C		CN2
26	ATF406	30	210m†	10u	5.0m§	5.0n§	150n§	24	500k	24	10m	5.0MØ	99	3.0	75	28	A023a	MP32a
27	ATF408	30	210m†	10u	5.0m§	5.0n§	150n§	24	500k	24	10m	5.0MØ	99	3.0	75	5C	A023a	MP32b
28	ICL8017MTZ	30	210m	10u†	6.0m	500n		30 Δ		20	2.0kØ	10M†Ø	87	130 †		5C	A163	TO100
29	1618	30	210m†	15u	Δ	75n†	150p	12 †	300k†	20	10m	2.0MØ	90	1.5	80	28		MP5y
30	1509/13	30	210m	15u	1.5m⧄	50n⧄		20	500k†	20	40m	1.0M§	114	1.0		48		MP1
31	1509/15	30	210m	15u	1.5m⧄	50n⧄		20	500k†	20	40m	1.0M§	114	1.0		48		MP2
32	1509/16	30	210m	15u	1.5m⧄	50n⧄		20	500k†	20	40m	1.0M§	114	1.0		48		MP3
33	1509/26	30	210m	15u	1.5m⧄	50n⧄		20	500k†	20	40m	1.0M§	114	1.0		48		MP4
34	1952	30	210m†	15u	2.0m⧄	250p§		20	10G†	20	40m	1.0MØ	94	10		48		MP16
35	SA3	30	210m	20u	50u§†		2.0n§	22	1.0M†	20	6.0m	500kØ†	89			28		MP101
36	SD3	30	210m	20u	50u§†		2.0n	22	1.0M†	20	6.0m	500kØ†	89			28		MP101a
37	SK3	30	210m	20u	50u§†		2.0n	22	1.0M†	20	6.0m	500kØ†	89			28		MP101b
38	SQ3	30	210m	20u	50u§†		2.0n	22	1.0M†	20	6.0m	500kØ†	89			28		MP102
39	109B1	30	210m	20u§	1.0m§		1.0n§	22	4.0M†	20	10m	4.0MØ	112	4.0	92 †	28		MP72
40	007D1	30	210m	20u§	5.0m§	20n	300n§	22	500k†	20	10m	2.0MØ	100	2.0	94	28		FP15
41	107D1	30	210m	20u§	5.0m§	20n	300n§	22	500k†	20	10m	2.0MØ	100	2.0	94	28		MP6n
42	207D1	30	210m	20u§	5.0m§	20n	100n§	22	500k†	20	10m	2.0MØ	100	2.0	94	5C		CN2
43	247D1	30	210m	20u§	5.0m§	20n	100n§	22	500k†	20	10m	2.0MØ	100	2.0	94	5C		CN2
44	Q85AH	30	210m	27u	Δ	10n§	220n§	22	2.0M	22	4.4m	30MØ	92	8.0	80	5C		CN2
45	109C1	30	210m	40u§	2.0m§		2.0n§	22	4.0M†	20	10m	4.0MØ	112	4.0	92 †	28		MP72
46	ZC801E1	30	210m	50u			25p§	20	100G†	20	14m	4.0MØ†	100	6.0		28	A166	MP238
47	007E1	30	210m	50u§	10m§	20n	500n§	22	500k†	20	10m	2.0MØ	100	2.0	94	28		FP15
48	107E1	30	210m	50u§	10m§	20n	500n§	22	500k†	20	10m	2.0MØ	100	2.0	94	28		MP6n
49	207E1	30	210m	50u§	10m§	20n	150n§	22	500k†	20	10m	2.0MØ	100	2.0	94	5C		CN2
50	247E1	30	210m	50u§	10m§	20n	150n§	22	500k†	20	10m	2.0MØ	100	2.0	94	5C		CN2
51	9694	30	210m	50u	15m	15n	100n	24 †	10M	20 †	200m	100M†§	76	100 †	90 †	57		
52	9302	30	210m	50u§	20m§	300n§	1.0u§	20	100k	20	20m	3.5k	70	6.0	70	07	A071	CN20b
53	DZ25	30	210m†	100u	.75m	50p		20	100G	20	40m	2.5MØ	100	6.0	72	5A		MP5g
54	109D1	30	210m	100u§	5.0m§		5.0n§	22	4.0M†	20	10m	4.0MØ	112	4.0	92 †	28		MP72
55	248C1	30	210m	100u§	5.0m§		5.0p§	14	100G†	20	10m	4.0MØ	100	3.0	76	5C		CN2
56	248C2	30	210m	150u§	5.0m§		10p§	14	100G†	20	10m	4.0MØ	100	3.0	76	5C		CN2
57	109E1	30	210m	150u§	10m§		10n§	22	4.0M†	20	10m	4.0MØ	112	4.0	92 †	28		MP72
58	1953	30	210m†	150u§	20m⧄		1.2n⧄	20	10T†	20	40m	1.0MØ	94	10 †		48		MP⧄
59	RM4709AD*	30 ♦	216m	2.0u†	3.0m	250n	600n	16	700k†	24	10kØ		88		80	5C	A003	MP40
60	RM4709J*	30 ♦	216m	2.0u†	3.0m	250n	600n	16	700k†	24	10kØ		88		80	5C	A003	FP6a
61	RM4709T*	30 ♦	216m	2.0u†	3.0m	250n	600n	16	700k†	24	10kØ		88		80	5C	A003	TO99
62	RM4709AJ*	30 ♦	216m	2.0 †	3.0m	250n	600n	16	700k†	24	10kØ		88		80	5C	A003	FP6a
63	RM4709AT*	30 ♦	216m	2.0 †	3.0m	250n	600n	16	700k†	24	10kØ		88		80	5C	A003	TO99
64	RM4709*	30 ♦	225m		6.0m		200n§†	20	400k†	24			93			5C	A003	MP40
65	RC4709C*	30 ♦	225m		10m		400n§†	20	150k†	24			93			07	A003	MP40
66	RM4709A*	30	225m	2.0u†§	3.0m	.25u	600u	16	350k	24	10kØ	10k†	88		80	5C	A003	MP40
67	RM4709D*	30 ♦	225m	3.0u†	6.0m	500n	1.5u	16	400k†	24	10kØ		88		70	5C	A003	MP40
68	RM4709C*	30	225m	3.0u†§	10m	.75u	2.0u	16	50k	24	10kØ	10k†	83		65	07	A003	MP40
69	RC4709J*	30 ♦	225m	3.0 †	10m	750n	2.0u	16	150k†	24	10kØ		83		65	07	A003	FP6a
70	RC4709T*	30 ♦	225m	3.0 †	10m	750n	2.0u	16	150k†	24	10kØ		83		65	07	A003	TO99
71	1538A-13	30	240m†	1.0u	100u⧄	200p⧄		20	500k†	20	40m	10MØ	160 †	30 †		48		MP1
72	1538A-16	30	240m†	1.0u	100u⧄	200p⧄		SE	500k†	20	40m	10MØ	160 †	30 †		48		MP3
73	1538A-25	30	240m†	1.0u	100u⧄	200p⧄		SE	500k†	20	40m	10MØ	160 †	30 †		48		MP2a
74	1538A-26	30	240m†	1.0u	100u⧄	200p⧄		SE	500k†	20	40m	10MØ	160 †	30 †		48		MP4
75	KM54	30	240m	2.7u	.30m	.15u			5.0M	22	10m	10MØ	106	9.0		28		MP⧄
76	132AC03	30	240m	5.0u	Δ	10p	50p§	20	100G	20	40m	2.5M§	106	5.0	74	25	A053	MP5ac
77	JFT2B	30	240m	5.0u⧄	Δ		100p§	20	100G	24	20m	3.0MØ	104	10 †	86 †	49		MP38
78	QFT12B	30	240m	5.0u⧄	Δ		100p§	20	100G	24	20m	3.0MØ	104	10 †	86 †	49		MP5
79	1556/13	30	240m	5.0u	1.3m⧄	100p§		20	100G†	20	40m	1.0MØ	100	6.0		48		MP1
80	1556/15	30	240m	5.0u	1.3m⧄	100p§		20	100G†	20	40m	1.0MØ	100	6.0		48		MP2
81	1556/16	30	240m	5.0u	1.3m⧄	100p§		20	100G†	20	40m	1.0MØ	100	6.0		48		MP3
82	1556/26	30	240m	5.0u	1.3m⧄	100p§		20	100G†	20	40m	1.0MØ	100	6.0		48		MP4
83	132AC	30	240m	10u	Δ	10p	50p§	20	100G	20	40m	2.5M§	106	5.0	74	25	A053	MP5ac
84	JFT2A	30	240m	10u⧄	Δ		100p§	20	100G	24	20m	3.0MØ	104	10 †	86 †	49		MP38
85	QFT12A	30	240m	10u⧄	Δ		100p§	20	100G	24	20m	3.0MØ	104	10 †	86 †	49		MP5
86	0-578C	30	240m	10u	2.0m§		10p§	20	100G†	20	10m	4.5MØ	86	15	80	5C		FP1
87	ICL8017CTZ	30	240m	10u†	7.5m	500n		30 Δ		20	2.0kØ	10M†Ø	87	130 †		07	A163	TO100
88	1552/15	30	240m	15u	2.0m⧄	50p§		20	100G†	20	40m	1.0MØ	100	6.0	60	48		MP2
89	1552/16	30	240m	15u	2.0m⧄	50p§		20	100G†	20	40m	1.0MØ	100	6.0	60	48		MP3
90	3013/13	30	240m	15u	2.0m⧄		100p§	20	100G†	20	40m	8.0MØ	86	30		48		MP1
91	3013/15	30	240m	15u	2.0m⧄		100p§	20	100G†	20	40m	8.0MØ	86	30		48		MP2
92	3013/16	30	240m	15u	2.0m⧄		100p§	20	100G†	20	40m	8.0MØ	86	30		48		MP3
93	3013/26	30	240m	15u	2.0m⧄		100p§	20	100G†	20	40m	8.0MØ	86	30		48		MP4
94	1554/13	30	240m	15u	2.5m	100p§		20	100G†	20	40m	1.0MØ	94	5.5		5C		MP1
95	1554/15	30	240m	15u	2.5m	100p§		20	100G†	20	40m	1.0MØ	94	5.5		5C		MP2
96	1554/16	30	240m	15u	2.5m	100p§		20	100G†	20	40m	1.0MØ	94	5.5		5C		MP3
97	1554/26	30	240m	15u	2.5m	100p§		20	100G†	20	40m	1.0MØ	94	5.5		5C		MP4
98	SQ2	30	240m	20u	Δ		15n	22	500k	20	10m	1.2MØ†	103			28		MP6f
99	KM42M	30	240m	20u	3.6m	50p†§			10T	20	40m	5.0M†Ø	87		60	5C		MP15
100	1557/15	30	240m	25u	3.3m⧄	250p§		20	10G†	20	20m	800kØ	90	3.0	60	48		MP2
101	1557/16	30	240m	25u	3.3m⧄	250p§		20	10G†	20	20m	800kØ	90	3.0	60	48		MP3
102	3064/12C	30	240m	30u⧄	1.0m†§		10p†§	20 Δ	100G†	20	20m	5.0MØ†	96 †	12	60 †	48		MP5f
103	3064/15	30	240m	30u§	3.8mΔ⧄		6.4n	20	1.0T	20	20m	3.0MØ	86	12	60 †	48		MP2
104	JFT2	30	240m	35u⧄	Δ		100p§	20	100G	24	20m	3.0MØ	104	10 †	86 †	49		MP38
105	QFT12	30	240m	35u⧄	Δ		100p§	20	100G	24	20m	3.0MØ	104	10 †	86 †	49		MP5
106	KM24	30	240m	41u	4.5m	.15u			5.0M	22	10m	10MØ	106	9.0		28		MP⧄
107	KM34	30	240m	41u	4.5m	.15u			5.0M	22	10m	10MØ	106	9.0		28		MP⧄
108	3112/12C	30	240m	50u⧄	7.0m⧄	6.4n⧄		20	100G†	20	10m	1.0MØ	90	3.0	60 †	48		MP5f
109	KM47C	30	240m	65u	Δ	20p		20 Δ	1.0T	22	5.5m	1.0M§	104	20 Ø	60	67		MP6d
110	SP25BUF	30	240m	100u	50u		50p§	SE		20	40m	1.5M§	180	2.0 †		28		CB2

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR.@25°C		MIN TRANSFER CHAR @ 25°C				TEMP CODE	DRAWINGS	
				OVER OPERATING TEMP. RANGE				MIN.-@25°C										
				MAX VOLTAGE		MAX CURRENT												
		1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	3 DRFT (V/°C)	4 OFST (V)	OFFSET (A)	BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	-+	CKT.	OUT-LINE Δ=MO
1	DZ19	30	240m†	100u	.50m	50p		10	100G†	20	20m	4.0MØ	110	6.0	92	5A		MP5g
2	DZ21B	30	240m†	100u	.50m	50p		10	100G†	20	40m	3.0MØ	110	6.0	92	5A		MP2
3	ZA101D	30	250m	15u	2.0m	5.0n	50n	20	10M	20	10m	4.0MØ	100	5.0	80	28		MP58
4	106C	30	256m	5.0u	Δ	5.0u§		20 Δ	1.0M	20	10m	2.0MØ	107	1.2	80	48		MP6c
5	107C	30	256m	5.0u	Δ	5.0n§		20 Δ	1.0M	20	10m	2.0MØ	107	1.2	80	48		MP6c
6	109C	30	256m	5.0u	Δ	5.0n§	5.0n§	20 Δ	1.0M	20	20m	2.0MØ	108	1.2	80	28		MP8c
7	L109C	30	256m	5.0u	Δ	5.0n§		20 Δ	1.0M	20	20m	2.0MØ	108	1.2	80	48		MP8b
8	106B	30	256m	10u	Δ	5.0u§		20 Δ	1.0M	20	10m	2.0MØ	107	1.2	80	48		MP6c
9	107B	30	256m	10u	Δ	5.0u§		20 Δ	1.0M	20	10m	2.0MØ	107	1.2	80	48		MP6c
10	109B	30	256m	10u	Δ	5.0n§	5.0n§	20 Δ	1.0M	20	20m	2.0MØ	108	1.2	80	28		MP8c
11	L109B	30	256m	10u	Δ	5.0n§		20 Δ	1.0M	20	20m	2.0MØ	108	1.2	80	48		MP8b
12	107A	30	256m	20u	Δ	5.0u§		20 Δ	1.0M	20	10m	2.0MØ	107	1.2	80	48		MP6c
13	109A	30	256m	20u	Δ	5.0n§	5.0n§	20 Δ	1.0M	20	20m	2.0MØ	108	1.2	80	28		MP8c
14	L109A	30	256m	20u	Δ	5.0n§		20 Δ	1.0M	20	20m	2.0MØ	108	1.2	80	48		MP8b
15	MS741X	30	270m		1.0m§	50n§	200n§	24	750k	20	2.0kØ	700k§	101		90	5A	A012	FP12
16	MS101	30 ♦	270m		6.0m	500n⧄	1.5u⧄	24	300k	20	2.0kØ		93		70	5A	A012	FP12
17	MS201	30 ♦	270m		7.5m§	500n§	1.5u§	24	400k	20	2.0kØ		86		65	28	A012	FP12
18	KM71	30	270m	.18u	20u	10p†§				22	40m	10M†Ø	160	.60		5C		MP23c
19	KM72	30	270m	.18u	20u	.10n			10M	20	40m	1.5MØ	174	.60		28		MP23c
20	230B	30	270m	250n	15u		50p§	SE	300k	20	8.0m	500kØ	140	200m		28		MP5an
21	230A	30	270m	500n	25u		100p§	SE	300k	20	8.0m	500kØ	140	200m		28		MP5an
22	Q101A	30	270m	5.0u	Δ		10n§	22	800k	24	40m	1.0MØ	106	1.5	75	28		MP5
23	Q102A	30	270m	5.0u	500u		10n§	22	800k	24	40m	1.0MØ	106	1.5	75	28		MP5
24	Q101	30	270m	15u	Δ		10n§	22	800k	24	40m	1.0MØ	106	1.5	75	28		MP5
25	Q102	30	270m	15u	500u		10n§	22	800k	24	40m	1.0MØ	106	1.5	75	28		MP5
26	SD5	30	270m	30u⧄	Δ	25n§	300n§	20	100k	20	4.0m	1.5MØ	86 †	1.1 †	70	5A		MP9a
27	SQ5	30	270m	30u⧄	Δ	25n§	300n§	20	100k	20	4.0m	1.5MØ	86 †	1.1 †	70	5A		MP5d
28	NS7560	30	270m	30u	10m	50n	.10u	10	2.5M	18		15MØ	64		55	5C	A005a	CN8b
29	UC4100CM	30	300m		10mΔ	75n	.20u	20	1.0M	20	4.0m	1.0M	86	3.0 †		07		MP14d
30	3010/13	30	300m	.50u	60u⧄		110p⧄	30 Δ	500k†	20	40m	10MØ	160 †	60		48		MP1
31	3010/16	30	300m	.50u	60u⧄		110p⧄	30 Δ	500k†	20	40m	10MØ	160 †	60		48		MP3
32	3010/25	30	300m	.50u	60u⧄		110p⧄	30 Δ	500k†	20	40m	10MØ	160 †	60		48		MP2a
33	3010/26	30	300m	.50u	60u⧄		110p⧄	30 Δ	500k†	20	40m	10MØ	160 †	60		48		MP4
34	C45	30	300m†	1.0u	50u	75p		SE	450k	20	10m	2.0MØ	140	30		5A		MP5t
35	3011/13	30	300m	1.0u	.10m⧄		180p⧄	30 Δ	500k†	20	40m	10MØ	160 †	50		48		MP1
36	3011/16	30	300m	1.0u	.10m⧄		180p⧄	30 Δ	500k†	20	40m	10MØ	160 †	50		48		MP3
37	3011/25	30	300m	1.0u	.10m⧄		180p⧄	30 Δ	500k†	20	40m	10MØ	160 †	50		48		MP2a
38	3011/26	30	300m	1.0u	.10m⧄		180p⧄	30 Δ	500k†	20	40m	10MØ	160 †	50		48		MP4
39	3012/13	30	300m	2.0u	.25m⧄		400p⧄	30 Δ	500k†	20	40m	5.0MØ	150 †	30		48		MP1
40	3012/16	30	300m	2.0u	.25m⧄		400p⧄	30 Δ	500k†	20	40m	5.0MØ	150 †	30		48		MP3
41	3012/25	30	300m	2.0u	.25m⧄		400p⧄	30 Δ	500k†	20	40m	5.0MØ	150 †	30		48		MP2a
42	3012/26	30	300m	2.0u	.25m⧄		400p⧄	30 Δ	500k†	20	40m	5.0MØ	150 †	30		48		MP4
43	9432	30	300m	5.0u	6.0m	100n	300n	24	500k	20	20m	10	90	500n	75	58		
44	9130	30	300m	5.0u	5.0M	200n	500n	20	100k	20	2.0m	1.0	120	1.0		58		MP⧄
45	147-04	30	300m†	10u	Δ		25n§	SE	200k†	20	20m	100M§	100	250		58	A164	MP5bp
46	14704	30	300m	10u	Δ		25n	SE	200k	20	40m	100M§	100	250		58		MP5ae
47	1306A	30	300m†	15u§	1.0mΔ⧄		50n⧄	20 †	25M†	20	40m	500kØ	100	1.0 †		48		MP⧄
48	1514/13	30	300m	15u	1.5m⧄	50n⧄		20 †	500k†	20	40m	500kØ	100	.60		48		MP1
49	1514/16	30	300m	15u	1.5m⧄	50n⧄		20 †	500k†	20	40m	500kØ	100	.60		48		MP3
50	1514/25	30	300m	15u	1.5m⧄	50n⧄		20 †	500k†	20	40m	500kØ	100	.60		48		MP2a
51	1514/26	30	300m	15u	1.5m⧄	50n⧄		20 †	500k†	20	40m	500kØ	100	.60		48		MP4
52	SA10A	30	300m	20u⧄	Δ		100n	20	200k	20	10m	1.0MØ	95	1.1	84 †	5A		MP8b
53	SF10A	30	300m	20u⧄	Δ		100n	20	200k	20	10m	1.0MØ	95	1.1	84 †	5A		MP5e
54	SK10A	30	300m	20u⧄	Δ		100n	20	200k	20	10m	1.0MØ	95	1.1	84 †	5A		MP8c
55	147-10	30	300m†	25u	Δ		25n§	SE	200k†	20	20m	100M§	100	250		58	A164	MP5bp
56	14710	30	300m	25u	Δ		25n	SE	200k	20	40m	100M§	100	250		58		MP5ae
57	1503/15	30	300m†	25u§	2.5m⧄		80n⧄	6.0	500k†	20	4.0m	1.0MØ	90	1.0 †		48		MP⧄
58	1517/13	30	300m†	30u	2.1m⧄	135n⧄		20	200k†	20	4.0m	1.0M†Ø	80	1.0 †		28		MP1
59	1517/15	30	300m†	30u	2.1m⧄	135n⧄		20	200k†	20	4.0m	1.0M†Ø	80	1.0 †		28		MP2
60	1517/16	30	300m†	30u	2.1m⧄	135n⧄		20	200k†	20	4.0m	1.0M†Ø	80	1.0 †		28		MP3
61	1517/26	30	300m†	30u	2.1m⧄	135n⧄		20	200k†	20	4.0m	1.0M†Ø	80	1.0 †		28		MP4
62	9263	30	300m	50u	10m	.30u	1.0u	6.0	100k	20	400m	10k†	66	1.2		55		MP⧄
63	9278	30	300m	100u	20m			3.0 †		20 †	300 Ø	30M§	70	1.0k†		58		MP⧄
64	3266/12C	30	300m	5.0m			50n§	20	1.0M†	20	10m	1.0MØ	114	6.0	86 †	28		MP5f
65	3267/12C	30	300m	20m			50n§	20	1.0M†	20	10m	1.0MØ	114	6.0	86 †	28		MP5f
66	3307/12C	30	300m	20m			20p§	20	100G†	20	10m	4.0MØ	106	6.0	66 †	28		MP5f
67	3312/12C	30	300m	20m			20p§	20	100G†	20	10m	4.0MØ	106	6.0	94	28		MP5f
68	3308/12C	30	300m	50m			100p§	20	100G†	20	10m	4.0MØ	106	6.0	66 †	28		MP5f
69	3313/12C	30	300m	50m			100p§	20	100G†	20	10m	4.0MØ	106	6.0	94	28		MP5f
70	MC15	30	330m†	10u	.75m	50p		20	100G†	20	10m	3.0MØ	100	6.0	72	5A		MP27
71	M15	30	330m†	30u	.75m	50p		20	100G†	20	10m	3.0MØ	100	6.0	72	5A		MP27
72	DZ15	30	330m†	100u	.75m	50p		20	100G†	20	10m	3.0MØ	100	6.0	72	5A		MP5g
73	14508	30	360m	250n	25u		100p	SE	300k	20	50m	100M§	160	250		58		MP53
74	145⧄	30	360m	500n	25u		100p	SE	300k	20	50m	100M§	160	250		58		MP53
75	150⧄	30	360m	1.0u	Δ		50p	SE	1.0M	20	8.0m	10M§	160	100		28	A073	MP6b
76	145D	30	360m	2.0u	25u		200p	SE	300k	20	50m	100M§	160	150		28		MP53
77	KM49	30	360m	5.0u	Δ	20p		24 Δ	1.0T	22	5.5m	1.0M§	100		114	28		MP6d
78	1555/13	30	360m	25u	2.5m⧄	250p§		20	100G†	20	200m	10MØ	86	60		48		MP1
79	1555/16	30	360m	25u	2.5m⧄	250p§		20	100G†	20	200m	10MØ	86	60		48		MP3
80	1555/26	30	360m	25u	2.5m⧄	250p§		20	100G†	20	200m	10MØ	86	60		48		MP4
81	KM49A	30	360m	40u	Δ	20p		24 Δ	1.0T	22	5.5m	1.0M§	100		108	28		MP6d
82	9688	30	360m	50u	15m	20n	100n	6.0 †	100M	20 †	400m	200M†§	94	250 †	50 †	57		
83	MCH2870MR	30	390m		6.0m	500n	1.5u	24	300k	24	300 Ø	1.1MØ†	94	800m†	70	5C	A127	CN30
84	2901A	30	390m	2.0u§	250u⧄	500p			500k†	20	20m	1.5MØ	150 †	1.8		48		MP⧄
85	1630	30	390m†	50u	Δ	30p†	100p	20 †	10G†	20	40m	10MØ	88	10	74	58		MP5y
86	739CJ*	30	420m		6.0m§	1.0u§	2.0u§	20	37k	26	5.0kØ		76	1.0	70	07	A109	MP147
87	A510B	30	420m	10u	Δ	20n	50n	20	300k	22	10m	10MØ	100	20		28		MP5b
88	A510A	30	420m	20u	Δ	50n	50n	20	300k	22	10m	10MØ	100	20		28		MP5b
89	141M25	30	450m	1.0u	Δ		10p	SE	1.0M	20	40m	1.0M§	132	10		28		CB6
90	9487	30	450m	1.0u	5.0m	5.0n	30n	30	100M	20	20m	60MØ	126	30	100	58		MP⧄
91	FSL5	30	450m	10u⧄	Δ		5.0n⧄	20	1.5M	20	40m	8.0M†	94	60	100	4A		MP8
92	1902/19	30	450m	10u	1.1m⧄	40n⧄		20	500k†	20	4.0m	1.0MØ	90	1.2		48		MP16
93	9695	30	450m	10u	7.5m	30n	100n	22 †	50M	20 †	1.0	20M†§	80	100 †	90 †	27		
94	1001	30	450m	15u	Δ	2.0n	10n§	3.2	2.0M	3.2	10m	900kØ	106	500n	80	28		MP5
95	1527/13	30	450m	15u	2.0m⧄	40n⧄		20	500k†	20	200m	10MØ	90	60		48		MP1
96	1527/16	30	450m	15u	2.0m⧄	40n⧄		20	500k†	20	200m	10MØ	90	60		48		MP3
97	1527/25	30	450m	15u	2.0m⧄	40n⧄		20	500k†	20	200m	10MØ	90	60		48		MP2a
98	1527/26	30	450m	15u	2.0m⧄	40n⧄		20	500k†	20	200m	10MØ	90	60		48		MP4
99	155	30	450m	20u	Δ	5.0n	25n	20	100k	20	40m	10M§	106	200	86	28		MP5af
100	147A⧄	30	450m	25u	Δ		25n	SE	200k	20	60m	20M§	100	300		58		MP54
101	1504	30	450m†	25u§	2.5m⧄	.25u⧄		6.0 †	500k†	20	4.0m	1.0M†Ø	86	1.0 †		48		MP2
102	1510-13	30	450m	25u	2.5m⧄	80n⧄		SE	500k†	20	60m	20MØ	86	60		48		MP1
103	1510-16	30	450m	25u	2.5m⧄	80n⧄		SE	500k†	20	60m	20MØ	86	60		48		MP3
104	1510-25	30	450m	25u	2.5m⧄	80n⧄		SE	500k†	20	60m	20MØ	86	60		48		MP2a
105	1510-26	30	450m	25u	2.5m⧄	80n⧄		SE	500k†	20	60m	20MØ	86	60		48		MP4
106	H9	30	450m	30u	Δ	25n		22	200k	20	10m	10MØ	95 †	4.5	72 †	5A		MP28
107#	TAA191	30	450m	40u	10m§	1.0u§	.50u§	8.0	100k	24	10kØ	100k†	84		83	07	A075	TO86
108	9692	30	450m	50u	15m	30n	100n	12 †	10M	8.0 †	80m	100M†§	80	150 †	60 †	28		
109	9711	30	450m	100u	15m	10p	50p	20 †	10G	20 †	200m	60M†§	74	100 †	50 †	57		
110	3043/15	30	480m	15u	.20m†§		5n†§	20 Δ	300k†	20	200m	1.5M†Ø	100 †	1.2	90 †	48		MP2

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS 1 TOT. VOLT. (ΔV)	PWR SUP @25°C RATED SPECS 2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE 3 DRFT (V/°C)	MAX VOLTAGE 4 OFST (V)	MAX CURRENT OFFSET (A)	MAX CURRENT BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	MIN.-@25°C DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	MIN. OUTPUT CHAR.@25°C P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E -+	DRAWINGS CKT.	OUT-LINE Δ=MO
1	147E	30	480m†	25u	Δ		25n§	SE	200k†	40	15m	100M§	100	250		58	A164	MP5bp
2	MCH2870CR	30	500m		7.5m	300n	800n	24	300k	22	300 Ø	1.1MØ†	86	800m†	70	07	A127	CN30
3	A149B	30	510m	15u	Δ	10p	25p	20	100G	20	30m	10MØ	100	100		28		MP5ab
4	A149A	30	510m	35u	Δ	20p	100p	20	100G	20	30m	10MØ	100	100		28		MP5ab
5	3049-15	30	540m	1.0u	160u⍁		250p⍁	SE	500k†	20	20m	8.0MØ	130	18		48		MP2
6	C46	30	600m†	1.0u	50u	75p		SE	250k†	20	50m	20MØ	140	30		5A		MP5t
7	KM48A	30	600m†	15u	Δ	20p	40p	20	1.0T†	22 †	11m†	10M§†	106	150 Ø	60	07		MP5as
8	3260/25	30	600m	25u⍁	1.0m§		6.4n		100G	20	60m	20kØ	80	500		48		MP2p
9	1560-13	30	600m	25u	2.5m⍁	250p§		SE	100G†	20	60m	20MØ	80	120		48		MP1
10	1560-16	30	600m	25u	2.5m⍁	250p§		SE	100G†	20	60m	20MØ	80	120		48		MP3
11	1560-25	30	600m	25u	2.5m⍁	250p§		SE	100G†	20	60m	20MØ	80	120		48		MP2a
12	1560-26	30	600m	25u	2.5m⍁	250p§		SE	100G†	20	60m	20MØ	80	120		48		MP4
13	1405	30	600m	50u	Δ	50p§		20	100G†	20	40m	10MØ	100	50	73 †	28		MP123
14	KM48	30	600m†	65u	Δ	20p	40p	20	1.0T†	22 †	11m†	10M§†	106	150 Ø	60	07		MP5as
15	9696	30	660m	1.0u	3.0m	5.0n	30n	24 †	100M	20 †	200m	20M§†	140	100 †	140 †	57		
16	OA303	30	750m	5.0u	1.0m	400p§†	2.0n§	20	1.0G†	20	5.0m	2.0MØ	93	1.0	65	27		
17	AB21	30	750m	20u		20n		24	3.0k	20	10m	5.0M	120 †	20		05		CB3
18	9491	30	750m	200u	20m	10u	75u	2.0	10k	10	6.0m	450M§	50	1.0k		27		MP⍁
19	1626	30	900m†	750n	Δ		100p	SE		20	40m	10MØ	160	12		28		MP37
20	FSK8	30	900m	10u⍁	Δ		10n	6.0	300k	20	40m	25MØ	100	50 †		4A		MP8a
21	FSL18	30	900m	10u⍁	Δ		10n	6.0	300k	20	40m	25MØ	100	50 †		4A		MP8
22	3063/40	30	900m	10u⍁	.30m†§		5.0n	20 Δ	500k†	20	1.0	1.5M†Ø	110	.60	100	48		MP2b
23	9186	30	900m	50u†§	10m†§	3.0u†§		20	3.0k	20	3.0kØ	1.0M	60	600	70	55		MP⍁
24	9245	30	900m	100u	30m	1.0n	1.0n	20	1.0G	20	10m	500k	70	150		55		MP⍁
25	9428	30	900m	150u	7.5m	3.0u	10u	20	3.0k	20	20m	1.0M	60	1.0m	60	58		
26	9706	30	900m	150u	10m	30p	100p	14 †	10G	20 †	3.3kØ	1.0M†	57	300 †	80 †	58		MP⍁
27	9186B	30	900m	200u	10m	10u	30u	8.5 †	3.0k	20 †	2.5kØ	600M§	60	600 †	80 †	57		MP⍁
28	9245A	30	900m	200u	20m	30p	100p	8.0 †	10G	20 †	3.0kØ	200k†	70	150 †	90 †	57		MP⍁
29	9722	30	900m	250u	10m	15p	50p	20	1.0T	20	400m	250M§	66	200	65	58		MP6q
30	9776	30	900m	250u	10m	30p	100p	10 †	10G	20 †	3.0kØ	2.0M†	50	250 †	70 †	57		MP⍁
31	9524	30	900m	300u	10m	30p	100p	16 †	10G	20 †	100 Ø	50k†	80	500 †	100 †	27		MP⍁
32	103C	30	960m	5.0u	1.0m§	2.0n§		20 Δ	4.0M	22	20m	500kØ	100	.13	86	$7		MP8c
33	103B	30	960m	10u	1.0m§	2.0n§		20 Δ	4.0M	22	20m	500kØ	100	.13	86	$7		MP8c
34	103A	30	960m	20u	1.0m§	2.0n§		20 Δ	4.0M	22	20m	500kØ	100	.13	86	$7		MP8c
35	OA30	30	996m						200k†	20	40m†	3.0M§	158 †			05	A008	CB⍁
36	9806	30	1.0	3.0u	10m	3.0n	15n	24	300M	20	6.0m	300MØ	96	300	100	58		MP⍁
37	A501§	30	1.0 †	10u†	Δ		30n§			20	50m	100M§	113 †	1.0k		28		MP83
38	A501M§	30	1.0 †	10u†	Δ		30n§			20	50m	100M§	113 †	1.0k		5C		MP83
39	A502§	30	1.0 †	10u†	Δ		15n§			20	50m	100M§	126 †	1.0k		28		MP83
40	A502M§	30	1.0 †	10u†	Δ		15n§			20	50m	100M§	126 †	1.0k		5C		MP83
41	9686	30	1.2	5.0u	5.0m	50n	200n	24 †	500k	20 †	6.0	300k†§	90	100m†	100 †	27		
42	9812	30	1.3	5.0u	7.5m	3.0n	15n	24	300M	20	400m	300MØ	90	200	100	25		MP⍁
43	9876	30	1.3	5.0u	10m	3.0n	30n	30	300M	20	6.0m	300MØ	90	250	100	55		MP⍁
44	3045/16	30	1.5	10u⍁	30u†§		5.0n	20 Δ	500k†	20	2.0	1.5M†Ø	110	.60	100	48		MP3
45	3046/40	30	1.5	15u⍁	.20m†§		5n†§	20 Δ	300k†	20	1.0	1.5M†Ø	100 †	.60	90 †	48		MP2b
46	9156	30	1.8	1.0u	2.0m				500k	20	40m	200m	160	100		58		MP⍁
47	9687	30	1.8	5.0u	5.0m	50n	200n	24 †	500k	20 †	1.0 Ø	300k§	90	100m†	90 †	27		MP⍁
48	Q200A	30	2.0	5.0u	Δ	5.0n	25n	6.0	4.0M†	6.0	6.0m†	150k§	92 †	3.0m†	75	28		MP5
49	HT72	30	2.7	6.0u†		750n	2.0u	SE	150k	20	20		81				A102	CB⍁
50	TOA2741WE	30	85		7.5	300m	800m	24	300	24	10k	100	86	500m	70	07		TO116
51	TOA8741WE	30	85		7.5	30n	90n	24	1.0	24	10k	100	86	500m	70			TO116
52#	SI5100A*	30	100						20k	50	4.0						A144	MP129
53#	SI5100B	30	100						20k	50	4.0						A144	MP129
54#	SN52709	30	165	3.0u†	6.0m	200n§	1.5u	16	150k	20	2.0kØ		88		70	5C	A003	TO89
55#	SN72709	30	200		10m	750n		16	50k	20	2.0kØ		84		65	07	A003	TO89
56	1406	30	210	30u	2.0M§Δ	75n§	1.0u§	20	300k	20	10m	1.0MØ	80	5.0	100	28		CN2
57	238	30	270	25u	1.0m		5.0p	22	100G	20	40m	12M	100	50	90			CN2d
58	A140	30	450 †	25u⍁	1.0m§		20p§	10	100G	20	40	10MØ	100	80	80	28		
59	Q103A	32	128m	5.0u	Δ		1.0n§	22	6.0M†	22	5.0m	500k§	98	400m†	75	28		MP5
60	Q103	32	128m	15u	Δ		1.0n§	22	6.0M†	22	5.0m	500k§	98	400m†	75	28		MP5
61	140BΔ	32	160m	15u	Δ			20 Δ	100G	20	2.2m	1.5MØ	94	1.2	60	28		MP6c
62	L108	32	160m†	20u	Δ	2.0n§		20 Δ	4.0M	20	5.0m	500kØ	94	120m	86	28		MP8b
63	CCA3	32	160m	20u§	2.2m§	77n	2.0n	20	3.0M	20	4.0m	700k§	98	.35 †	80	28		MP12
64	140A	32	160m	30u	Δ			20 Δ	100G	20	2.2m	1.5MØ	94	1.2	60	28		MP6c
65	CIA1	32	180m	20u⍁	2.2m§	20n	.30u§	20	200k	21	4.0m	1.0MØ	86	.30 †	70	58		MP29
66	801B	32	192m	10u⍁	5.6m⍁	1.0u⍁	11u⍁	16	25M	20	2.0kØ	10k	85	300 Ø	65	5C		TO99
67	801S	32	192m	20u⍁	7.0m⍁	2.0u⍁	16u⍁	16	25M	20	2.0kØ	10k	85	300 Ø	65	5C		TO99
68	801A	32	192m	40u⍁	7.4m⍁	2.0u⍁	11u⍁	16	25M	20	2.0kØ	10k	85	300 Ø	65	5C		TO99
69	CDA3A	32	224m	15u	Δ		1.5n	22	2.0M†	20	6.0m	500k§	95	300m†	86	28		MP9
70	110C	32	256m	5.0u	Δ		30n§		1.0M	20	20m	20MØ	94	100		28		MP6c
71	Q82AH	32	256m	18u§	2.0m§	1.0u	.75u	14	2.0M†	20	20m	70M§	86	5.0 †	80	5C		CN2
72	LFT1	32	260m	20u	Δ	10p	3.0n	20	10G	20	4.0m	1.0M§	90	800m†	60	28		MP8
73	SA2	32	300m	20u	Δ		15n§	22	500k†	20	10m	1.0M§	104	600m†	86	28		MP8
74	SA3A	32	300m	20u	Δ		2.0n	22	2.0M†	20	10m	60k§	100	300m†	86	28		MP8
75	SA1	32	300m	25u	Δ		20n§	22	300k†	20	10m	2.0M†	98	1.1 †	84	28		MP8
76	SL7A	32	320m	20u	Δ		2.0n§	22	2.0M†	20	40m	500k§	100	200m†	86	28		MP8
77	SL6	32	320m	25u	Δ		15n§		500k	20	40m	1.0M§	94	500m†	86	28		MP8
78	FSL6	32	320m	30u	Δ	40n§		32	500k†	20	40m	40M§	93	30 †		28		MP8b
79	ESL1	32	384m	20u	Δ		25n	22	200k	24	10m	1.4M†Ø	90 †	1.2 †	125 †	5A		MP8b
80	302	32	416m	60u	Δ		500n§	400 Δ	10G	20	4.0m	20kØ	80	4.0k	120	28		MP17c
81	303	32	416m	60u	Δ		500n§	400 Δ	10G	20	4.0m	15kØ	100	4.0k	120	28		MP17c
82	302B	32	432m	30u	Δ		250n§	400 Δ	10G	20	2.5m	20kØ	80	4.0k	120	28		MP17c
83	303B	32	432m	30u	Δ		250n§	400 Δ	10G	20	2.5m	15kØ	80	4.0k	120	28		MP17c
84	302A	32	432m	60u	Δ		500n§	400 Δ	10G	20	2.5m	20kØ	80	4.0k	120	28		MP17c
85	303A	32	432m	60u	Δ		500n§	400 Δ	10G	20	2.5m	15kØ	80	4.0k	120	28		MP17c
86	106	32	480m	20u	Δ	150n§		20 Δ	100k	20	5.0m	1.5MØ	123	1.2	86	$7		MP6c
87	107	32	480m	20u	Δ	20n§		20 Δ	100k	20	5.0m	1.5MØ	123	1.2	86	$7		MP6c
88	L106	32	480m	20u	Δ	150n§		20 Δ	100k	20	5.0m	1.5MØ	123	1.2	86	$7		MP8b
89	L107	32	480m	20u	Δ	20n§		20 Δ	100k	20	5.0m	1.5MØ	123	1.2	86	$7		MP8b
90	116Δ	32	640m	100u	10m	300p§	300p§	20 Δ	20k	22	100m	10MØ	100	30	80	28		MP22
91	117	32	640m	100u	10m	.30u§	.30u§	20 Δ	20k	22	250m	10MØ	100	30	80	28		MP22
92	220B	32	900m	.25u	25m		100p§		300k	20	25m	10MØ	160	250		28		MP21
93	408	32	960m†	10u†	5.0m†Δ		700n†§	16	70k†	44	10	150k†Ø	69	100m	60 †	5F		MP168
94	405	32	960m†	50u†	20m†Δ		100u†§	7.0 §	10k†	44	2.0	200k†Ø	27	3.0	46 †	5F		MP167a
95	102C	32	1.1 †	5.0u	1.0m	2.0n		20 Δ	6.0M	22	40m	10MØ	126	30	86	28		MP8b
96	102B	32	1.1 †	10u	1.0m	2.0n		20 Δ	6.0M	22	40m	10MØ	126	30	86	28		MP8b
97	102A	32	1.1 †	20u	1.0m	2.0n		20 Δ	6.0M	22	40m	10MØ	126	30	86	28		MP8b
98	121	32	1.3	25u	1.0m		2.0u	20 Δ	5.0k	20	20m		86	250	80	28		MP8c
99	202	32	1.6 †	.20u	20u	50p			220k	22	40m	10MØ	180	30		27		MP17
100	203	32	1.6 †	.20u	20u	50p			220k	22	40m	2.0MØ	160	1.2		27		MP17
101	201	32	4.8 †	.20u	20u	50p			220k	22	200m	10MØ	180	30		27		MP17
102	113	32	4.8	20u	1.0m§	1.0n§		20 Δ	7.0M	22	100m	10MØ	126	30	86	$7		MP20
103	L174	33 ♦	315m			10n	.50u	30	50k†	20	40m	4.0M	86	6.0 †		5C		TO86
104	uA776-3F	36	500u†	5.0u†	2.0m†	3.0n†	10n†	36	3.0M†	24	75kØ	300kØ	100 †	160n†	70	07		TO91
105	3229/12C	36	2.1m	20u⍁	2.0m§		3.2n		100G	2.0	2.0m	50kØ	90	300n	75	48		MP5
106	3230/12C	36	2.1m	20u⍁	4.0m§		6.4n		100G	2.0	2.0m	100kØ	90	300n	75	48		MP5
107	SG318T	36	16m	30u	10m	1.5n	10n	28	10m	26	2.6m	800k	88	400m	80	07		TO99
108	uA308A-6A	36	24m	5.0u	730u	1.5n	10n	30	30M	26	10kØ	800k		400m	96	07		MP14v
109	uA308A-9A	36	24m	5.0u	730u	1.5n	10n	30	30M	26	10kØ	800k		400m	96	07		MP39d
110	uA308A-9T	36	24m	5.0u	730u	1.5n	10n	30	30M	26	10kØ	800k		400m	96	07		MP48a

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE				MIN.-@25°C		MIN. OUTPUT CHAR.@25°C		MIN TRANSFER CHAR @ 25°C				T E M P / C O D E	DRAWINGS	
				MAX VOLTAGE		MAX CURRENT												
		1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	3 DRFT (V/°C)	4 OFST (V)	OFFSET (A)	BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	-+	CKT.	OUT-LINE Δ=MO
1	uA308-9T	36	24m	30u	10n	1.5n	10n	30	30m	26	10kØ	800k		400m	80	07		MP48a
2	uA308-6A	36	24m	30u	10m	1.5n	10n	30	30M	26	10kØ	800k		400m	80	07		MP14v
3	uA308-9A	36	24m	30u	10m	1.5n	10n	30	30M	26	10kØ	800k		400m	80	07		MP39d
4	PC212H	36	90m	15u	5.0m§	100n§	500n§†	20 †	60k	20	♦	1.0M†	60	100u†	65	5C	A028	FP7
5	F318A	36	126m	10u	1.0m	100p	1.0p	20	10T	20	10m	500kØ	88	500m	80 †	28		MP58d
6	F318B	36	126m	25u	1.0m	100p	1.0p	20	10T	20	10m	500kØ	88	500m	80 †	28		MP58d
7	F318C	36	126m	50u	2.0m	100p	1.0p	20	10T	20	10m	500kØ	88	500m	80 †	28		MP58d
8	LM709AF	36	165m	5.0u†	5.0m	.20u	.50u	20		28		1.0MØ	94			5C		
9	HA2310	36	165m	10u†	7.5m		10n	30	10G	20	10kØ	4.0MØ		30	80	07		TO99
10	HA2110	36	198m	6.0u	6.0m		10n	30	10G	20	10kØ	4.0MØ		30	80	5C		TO99
11	HA2210	36	198m	12u	6.0m		10n	30	10G	20	10kØ	4.0MØ		30	80	28		TO99
12	RC709CD	36 ♦	200m		10m		300n§†	20	250k†	24			93			07	A003	MP40
13	RC709CQ	36 ♦	200m		10m		300n§†	20	250k†	24			93			07	A003	FP2k
14	RC709CT	36 ♦	200m		10m		300n§†	20	250k†	24			93			07	A003	MP40
15	PC210H	36	200m	15u	5.0m§	130n§	600n§†	30 †	50k	28 †	♦	1.2M†	65	100 †	65	5C	A028	FP7
16	TOA118E	36	288m		6.0m	100n	500n	23	1.0M	24	2.0kØ	15M	94	50	80	5C	A173a	MP39j
17	TOA218E	36	288m		6.0m	100n	500n	23	1.0M	24	2.0kØ	15M	94	50	80	28	A173a	MP39j
18	TOA318E	36	360m		15m	300n	1.0u	23	500k	24	2.0kØ	15M	88	50	70	07	A173a	MP39j
19	406	36	360m†	6.0u†	Δ		500n†§	30	300k†	24	10	600k†Ø	95	1.0	90 †	5F		MP167a
20	U3805	36	360m	18u	Δ	5.0n§	10n§	20	5.0M†	20	12m	1.0M§	100	600m†	80	28		MP5a
21	116K	36	540m	25u	Δ		25n	20	200k	20	200m	2.0M§	92	6.0		25		MP5ag
22	1302	36	900m	10u§	3.0m§	3.0n	25u	22	300k	24	20m	2.0k	94 †	3.0 †	95 †	2A		
23	756	36	19	10u	Δ			20	1.0M	30	1.0	250k	127	22 Ø	86	06		MP121
24	410%	38	760m†	10u†			85u§†	20	10k†	50	80	150k†Ø	26	150m		5F		MP169
25	SG118T	40	16m	15u	3.0m	400p	3.0n	28	30m	26	2.6m	800k	94	400m	85	5C		TO99
26	SG218T	40	16m	15u	3.0m	400p	3.0n	28	30m	26	2.6m	800k	94	400m	85	5C		TO99
27	SG118AT	40 ♦	24m	5.0u	1.0m	400p	3.0n	27	30m	26	10kØ		92		96	5C		TO99
28	SG218AT	40 ♦	24m	5.0u	1.0m	400p	3.0n	27	30m	26	10kØ		92		96	28		TO99
29	SG318AT	40	24m	5.0u	1.0m	400p	3.0n	27	30m	26	10kØ		92		96	07		TO99
30	uA108A-3F	40	24m	5.0u	1.0m	400p	3.0n	30	30M	26	10kØ	800k	94	400m	96	5C		TO91
31	uA108A-6A	40	24m	5.0u	1.0m	400p	3.0n	30	30M	26	10kØ	800k	92	400m	96	5C		MP14v
32	uA208A-3F	40	24m	5.0u	1.0m	400p	3.0n	30	30M	26	10kØ	800k	94	400m	96	28		TO91
33	uA208A-6A	40	24m	5.0u	1.0m	400p	3.0n	30	30M	26	10kØ	800k	94	400m	96	28		MP14v
34	uA108-3F	40	24m	15u	3.0m	400p	3.0n	30	30M	26	10kØ	800k	92	400m	85	5C		TO91
35	uA108-6A	40	24m	15u	3.0m	400p	3.0n	30	30M	26	10kØ	800k	94	400m	85	5C		MP14v
36	uA208-3F	40	24m	15u	3.0m	400p	3.0n	30	30M	26	10uØ	800k	92	400m	85	28		TO91
37	uA208-6A	40	24m	15u	3.0m	400p	3.0n	30	30M	26	10kØ	800k	92	400m	85	28		MP14v
38	RA238	40 §	108m	†⧄	6.0m	500n	500n§	18	50k	18	10kØ	7.0M†Ø	60	3.2 †	70	5C	A030	TO84
39	RA240	40 §	108m	†⧄	6.0m	500n	500n§	18 §	100k	6.0	10kØ	6.0M†Ø	80	3.2 †	70	5C	A030	TO84
40	RA338	40 §	108m		8.5m	.75u	3.0u	18	30k	18	10kØ	2.0M†	60		70	5C	A048	TO84
41	RA340	40 §	108m		8.5m	.75u	3.0u	18 §	60k	6.0	10kØ	2.0M†	80		70	5C	A049	TO84
42	WC101T	40	120m	6.0u	2.0m	.10u	.25u	24	400k	26	13m	50	100		90	07	A012	CN18b
43	LA101-M	40	120m	6.0u†	6.0m	500n	1.5u	3.0	300k	20	2.0kØ	1.2k	105	400m†	70	5C	A001	MP⧄
44	LA101G	40	120m	6.0u†	6.0m	500n	1.5u	3.0	300k	20	2.0kØ	1.2k	105	400m†	70	5C	A001	CN1c
45	LA201-M	40	120m	10u†	10m	750m	2.0u	3.0	150k	20	2.0kØ	1.2k	105	400m†	70	07	A001	MP⧄
46	LA201F	40	120m	10u†	10m	.75u	2.0u	3.0	150k	20	2.0kØ	1.2k	105	.40 †	70	07	A001	TO91
47	LA201G	40	120m	10u†	10m	750n	2.0u	3.0	150k	20	2.0kØ	1.2k	105	400m†	70	07	A001	CN1c
48	RM101CD	40	120m	10u	10m	.75u	2.0u	24	150k	24	10kØ	.10k†	86		65	07	A001	MP40
49	RM101CF	40	120m	10u	10m	.75u	2.0u	24	150k	24	10kØ	.10k†	86		65	07	A001	FP2g
50	RM101CT	40	120m	10u	10m	.75u	2.0u	24	150k	24	10kØ	.10k†	86		65	07	A001	CN1a
51	RM101F	40	120m	10u	10m	750n	2.0u	24	150k	24	10kØ	100M†	86		65	07	A001	FP2g
52	RM4101CD	40	120m	10u	10m	.75u	2.0u	24	150k	24	10kØ	.01k†	86		70	07	A001	MP40
53	RM4101CF	40	120m	10u	10m	.75u	2.0u	24	150k	24	10kØ	.01k†	86		70	07	A001	FP2g
54	RM4101CT	40	120m	10u	10m	.75u	2.0u	24	150k	24	10kØ	.01k†	86		70	07	A001	CN1a
55	RM4101F	40	120m	10u	10m	750n	2.0u	24	150k	24	10kØ	10M†	86		70	07	A001	FP2g
56	LM101A	40 ♦	120m	15u	3.0m	20n	100n	30	1.5M	20	2.0kØ	1.0k†	87		80	5C	A001	CN1c
57	LM107	40 ♦	120m	15u	3.0m	20n	100n	30	1.5M	20	2.0kØ	800k	93	500m	80	5C	A001	CN1c
58	TOA101AE	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	100 †	94	10 †	80	5C	A173a	MP39j
59	TOA107E	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	10	94		80	5C	A173b	MP39j
60	TOA201AE	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	100 †	94	10 †	80	28	A173a	MP39j
61	TOA207E	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	10	94		80	28	A173b	MP39j
62	LM201A	40 ♦	120m	20u	6.0m	30n	300n	30	500k	20	2.0kØ	1.0k	87		70	07	A001	CN1c
63	LM207	40 ♦	120m	20u	6.0m	30n	300n	30	500k	20	2.0kØ	800k	87	500m	70	07	A001	CN1c
64	SG207N	40 ♦	120m	20u	6.0m	30n	300n	30	500k	20	2.0kØ	800k	87	500m	70	07	A001	TO116
65	NS7560A	40	360m	10u	3.0m	20n	25n	10	2.5M	18		15MØ	72		60	5C	A005a	CN8b
66#	SFC2101M	44	79m	3.0u§†	1.0m§†	40n§†	120n§†		800k†				104 †		90 †	5C	A001	TO99
67#	SFC2201	44	79m	6.0u§†	2.0m§†	.10u§†	.25u§†		400k†				104 †		90 †	07	A001	TO99
68	RC4741C*	44 ♦	170m		7.5m		200n§†	30	1.0M†	24			106			07	A042a	MP40
69	LM201	44	500m	6.0u	10m	.75u	2.0u	30	150k	20	5.0m	800kØ	86		65	07		TO99
70	CQA22	48		12u	Δ	8.0n		22	200k†	40	6.0m	1.5M†Ø	98			28	A034a	MP5c
71	UC4200	48	180m	6.0u†	10m	.10u	.30u	30	1.0M	40	5.0kØ		94	.50 †	90 †	5C		TO99
72	UC4200C	48	240m		15mΔ	.10u	.25u	30	3.0M	40	8.0m	1.0M	89	.50 †		07		TO99
73	UC4200CM	48	240m		15m	.10u	.25u	30	2.0M	40	8.0m	1.0M	89	.50 †		07		MP14d
74	115E	48	240m	25u	Δ		350n	40	200k	40	60m	2.0M§	94	10		28		MP6g
75	L161	48	256m	20u	Δ	5.0n§		40 Δ	1.0M	40	10m	1.5M§	108	1.2	80	48		MP8b
76	160	48	260m	20u	Δ	5.0n§	5.0n§	40 Δ	1.0M	40	2.5m	1.5M§	108	1.2	80	28		MP8c
77	901Δ	48	360m	15u	Δ					20	30m	2.0MØ	106	15 Ø				CB4
78	SA24	48	384m	25u	Δ		15n§	20	500k†	40	4.0m	1.0M§	97	600m†	86	28		MP8b
79	161Δ	48	416m	20u	Δ	5.0n§	5.0n§	40 Δ	1.0M	40	10m	1.5MØ	108	1.2	80	28		MP8c
80	DL21	48	480m	20u	Δ		25n§	22	100k	40	40m	1.5MØ	94			28		MP8
81	SL26	48	480m	30u	Δ		15n§	20	500k†	40	40m	1.0M§	113	300m†	86 †	28		MP8b
82	145E	48	576m	500n	25u		100p	SE	300k	40	30m	100M§	160	150		58		MP53
83	132AE	48	576m	10u	Δ		50p§	38	100G	40	6.0m	2.5M§	100	5.0	74	28	A053	MP5ac
84	141	48	720m	1.0u	Δ		10p	SE	1.0M	40	8.0m	1.0M§	132	15		28		CB6
85	141C⧄	48	720m	1.0u	Δ		10p	SE	1.0M	40	8.0m	1.0M§	132	15		28		CB7
86	OA330	48	1.2 †	100u	Δ	1.5u§		40 Δ	100k†	40 †	20m†	3.0M§	114 †	20 †		06	A009	CB⧄
87	145Δ	50	250m	30u	Δ		100p§	30 Δ	100G	40	2.2m	1.5MØ	94	1.2	70	28		MP6c
88	422	50	400m†	20u†	20m†		.50u†	40 †	20k†	40 †	1.0kØ	2.0M†Ø	86 †	5.0 †	80 †	28	A039	OCT
89	920§	50	400m	500u†	100m†		200n†	40 †	20k†			2.0MØ†	56 †		80 †	28	A039	OCT
90	425	50	750m†	20u†	20m†	1.0u†	.50u†	40 †	20k†	40 †	1.0kØ	2.0M†Ø	86 †	5.0 †	80 †	28	A039	OCT
91	430§	50	1.0	500u	100m	1.0u	.20u	40	500k	40	1.0	50k	54	5.0	80	28		OCT
92	440	50	1.0 †	500u†	100m†	1.0u†	200n†	40 †	20k†	44 †	4.0m†	2.0M†Ø	56 †	5.0 †	80 †	58	A039	OCT
93	976	50	1.5	50u	10m	3.0u		10	3.0k	20	20m	1.0M	50	250		05		MP⧄
94#	SI5200A*	50	200						20k	80	5.0						A144	MP129
95#	SI5200B	50	200						20k	80	5.0						A144	MP129
96	1549/13	52	154m	15u	1.5m⧄	50n⧄		30	500k†	40	20m	1.0M§	114	2.0		48		MP1
97	1549/15	52	154m	15u	1.5m⧄	50n⧄		30	500k†	40	20m	1.0M§	114	2.0		48		MP2
98	1549/16	52	154m	15u	1.5m⧄	50n⧄		30	500k†	40	20m	1.0M§	114	2.0		48		MP3
99	1549/26	52	154m	15u	1.5m⧄	50n⧄		30	500k†	40	20m	1.0M§	114	2.0		48		MP4
100	1548-13	52	208m	1.0u	100n⧄	200p⧄		SE	500k†	40	20m	10MØ	160 †	20 †		48		MP1
101	1548-16	52	208m	1.0u	100n⧄	200p⧄		SE	500k†	40	20m	10MØ	160 †	20 †		48		MP3
102	1548-26	52	208m	1.0u	100n⧄	200p⧄		SE	500k†	40	20m	10MØ	160 †	20 †		48		MP4
103	1540/13	52	260m	10u	1.5m⧄	50n⧄		30	500k†	40	20m	1.0MØ	100	1.2		48		MP1
104	1540/15	52	260m	10u	1.5m⧄	50n⧄		30	500k†	40	20m	1.0MØ	100	1.2		48		MP2
105	1540/16	52	260m	10u	1.5m⧄	50n⧄		30	500k†	40	20m	1.0MØ	100	1.2		48		MP3
106	1540/26	52	260m	10u	1.5m⧄	50n⧄		30	500k†	40	20m	1.0MØ	100	1.2		48		MP4
107	1547/13	52	260m	20u	2.0m⧄	.10u⧄		30	200k†	40	10m	800kØ	94	1.2		48		MP1
108	1547/15	52	260m	20u	2.0m⧄	.10u⧄		30	200k†	40	10m	800kØ	94	1.2		48		MP2
109	1547/16	52	260m	20u	2.0m⧄	.10u⧄		30	200k†	40	10m	800kØ	94	1.2		48		MP3
110	1547/26	52	260m	20u	2.0m⧄	.10u⧄		30	200k†	40	10m	800kØ	94	1.2		48		MP4

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR.@25°C		MIN TRANSFER CHAR @ 25°C				TEMP CODE	DRAWINGS	
				OVER OPERATING TEMP. RANGE				MIN.-@25°C										
				MAX VOLTAGE		MAX CURRENT												
		1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	3 DRFT (V/°C)	4 OFST (V)	OFFSET (A)	BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	-+	CKT.	OUT-LINE Δ=MO
1	1543/13	52	364m	15u	2.0m⍁	250p§		30	100G†	40	20m	1.0MØ	96	6.0		48		MP1
2	1543/15	52	364m	15u	2.0m⍁	250p§		30	100G†	40	20m	1.0MØ	96	6.0		48		MP2
3	1543/16	52	364m	15u	2.0m⍁	250p§		30	100G†	40	20m	1.0MØ	96	6.0		48		MP3
4	1543/26	52	364m	15u	2.0m⍁	250p§		30	100G†	40	20m	1.0MØ	96	6.0		48		MP4
5	USL1C	52	730m	1.0u	.20m		10n	10	300k†	8.0	10m	1.5M†Ø	100	1.1 †	125 †	5A		MP8
6	USL1B	52	730m	2.0u	.20m		10n	10	300k†	8.0	10m	1.5M†Ø	100	1.1 †	125 †	5A		MP8
7	USL1A	52	730m	5.0u	.20m		10n	10	300k†	8.0	10m	1.5M†Ø	100	1.1 †	125 †	5A		MP8
8	USL1	52	730m	10u	.20m		10n	10	300k†	8.0	10m	1.5M†Ø	100	1.1 †	125 †	5A		MP8
9	3070/40	52	1.3	10u⍁	.30m†§		5.0n	40 Δ	500k†	40	600m	1.5M†Ø	110	1.2	100	48		MP2b
10	3042/16	52	1.6	10u⍁	30u†§		5.0n	40 Δ	500k†	40	1.2	1.5M†Ø	110	1.2	100	48		MP3
11	411	55	1.1	10u†			85u§†	20	10k†	80	50	150k†Ø	26	150m		5F		MP170
12	411%	55	1.1	10u†			85u§†	20	10k†	80	50	150k†Ø	26	150m		5F		MP170
13	412	55	1.1	10u†			85u†§	20	10k†	80	50	150k†Ø	26	150m		5F		MP170
14	KM42SP	56		2.5u	Δ	20p		20 Δ	1.0T	22	20m	10M§	46	150 Ø	60	5C		MP23b
15	KM41SP	56		3.0u	Δ	20p		20 Δ	1.0T	22	2.2m	5.0M§	46	600m	60	5C		MP23b
16	KM43HSP	56		40u	Δ	20p		20 Δ	1.0T	22	2.2m	5.0M§	46	40 Ø	60	5C		MP23b
17	VA5B153631	56	168m		7.0m	7.0n	35n	52 †	10M†	44	5.0kØ	1.0M†Ø	93	2.0 †	80	5C	A118	TO99
18	VA5B153639	56	168m		7.0m	7.0n	35n	52 †	10M†	44	5.0kØ	1.0M†Ø	93	2.0 †	80	07	A118	TO99
19	VA5B143631	56	224m		14m	14n	55n	52 †	10M†	44	5.0kØ	1.0M†Ø	93	2.0 †	70	5C	A118	TO99
20	VA5B143639	56	224m		14m	14n	55n	52 †	10M†	44	5.0kØ	1.0M†Ø	93	2.0 †	70	07	A118	TO99
21	407	56	448m†	6.0u†	Δ		500n†§	30	300k†	40	6.0	600k†Ø	95	1.5	90 †	5F		MP167a
22	404	56	448m†	50u†	Δ		1.5u†§	36	70k†	40	6.0	300k†Ø	69	1.5	60 †	5F		MP167a
23	PM6040	60	300m	50u	20mΔ§	150n	500n§	50	10M§	50	8.0		85	15	80	29		MP143
24	SA25	60	600m	30u	Δ		25n§	22	200k	50	50m	900k§	94	400m†	86	28		MP10
25	155F	60	900m	20u	Δ	5.0n	25n	40	200k	50	30m	10M§	106	160	86	28		MP5af
26	435§	60	900m†	20u§	20m§	1.0u§	.50u§	50 †	500k†	50 †	300m†	50k†	76 †	5.0 †	80 †	5C		CN⍁
27	HT58	60	1.5	500n	Δ		1.0n	20	250	20	80		133	10 †	60			CB⍁
28	PM603	64	640m		20mΔ§	100n§	500n§	58	50k	50	6.0	1.0k†	90	2.0	50	2C		MP115
29	SA1300	64	1.9	25u⍁	5.0m§Δ	50n§	200n§		250k	52	1.3		100	1.5 Ø		48		MP110
30	4009	72	580m†	.50u	100m		.20u†	30 †	20k†	60 †	50kØ	30M†Ø	58 †	10 †	80 †	57	A040	CN14
31	1544/13	120	840m	25u	2.5m⍁	250p§		40	100G†	100	40m	800kØ	106	6.0		48		MP1
32	1544/16	120	840m	25u	2.5m⍁	250p§		40	100G†	100	40m	800kØ	106	6.0		48		MP3
33	1544/25	120	840m	25u	2.5m⍁	250p§		40	100G†	100	40m	800kØ	106	6.0		48		MP2a
34	1544/26	120	840m	25u	2.5m⍁	250p§		40	100G†	100	40m	800kØ	106	6.0		48		MP4
35	1341	120	1.2 †	25u§	1.5mΔ⍁		80n⍁	40	500k†	100	20m	250k§	106	1.0 †		48		MP⍁
36	1541/13	120	1.2	25u	2.5m⍁	80n⍁		40	500k†	100	20m	250kØ	106	.90		48		MP1
37	1541/16	120	1.2	25u	2.5m⍁	80n⍁		40	500k†	100	20m	250kØ	106	.90		48		MP3
38	1541/25	120	1.2	25u	2.5m⍁	80n⍁		40	500k†	100	20m	250kØ	106	.90		48		MP2a
39	1541/26	120	1.2	25u	2.5m⍁	80n⍁		40	500k†	100	20m	250kØ	106	.90		48		MP4
40	SA50	120	1.8	20u	Δ			20	100k	100	20m	3.5MØ†	98			08		MP10
41	1643A-16	120	2.4	1.0u	100u⍁	1.3n⍁		SE	50k†	100	40m	2.5MØ	140	15		48		MP3
42	1643A-26	120	2.4	1.0u	100u⍁	1.3n⍁		SE	50k†	100	40m	2.5MØ	140	15		48		MP4
43	KM43-70	140	500m	35u	6.3m	50p†§			10T	120	10m	2.0M†Ø	104		60	5C		MP23a
44	KM55	140	868m	3.0u	.54m	5.0n†§			200k	120	10m	1.0M†Ø	94		60	5C		MP23a
45	KM25	140	868m	20u⍁	3.6m	5.0n†§			250k	120	20m	1.0M†Ø	94		60	5C		MP23a
46	SA60	150	2.2	20u	Δ		20n§	20	500k†	120	20m	2.0M§	100	300m†	86 †	28		MP10
47	SA60A	150	2.2	20u	Δ		20n§	20	500k†	120	10m	2.0MØ	100	300m	86	28		
48	143	150	3.7	1.0u	Δ		10p	SE	1.0M	100	100m	1.0M§	132	7.0		28		CB6
49	143C⍁	150	3.7	1.0u	Δ		10p	SE	1.0M	100	100m	1.0M§	132	7.0		28		CB7
50	1545/13	240	1.7	25u	2.5m⍁	250p§		40	100G†	200	20m	750kØ	106	12		48		MP1
51	1545/16	240	1.7	25u	2.5m⍁	250p§		40	100G†	200	20m	750kØ	106	12		48		MP3
52	1545/25	240	1.7	25u	2.5m⍁	250p§		40	100G†	200	20m	750kØ	106	12		48		MP2a
53	1545/26	240	1.7	25u	2.5m⍁	250p§		40	100G†	200	20m	750kØ	106	12		48		MP4
54	1342	240	2.4 †	25u§	1.5mΔ⍁		80n⍁	40	500k†	200	20m	250k§	106	2.0 †		48		MP⍁
55	1542/13	240	2.4	25u	2.5m⍁	80n⍁		40	500k	200	20m	250kØ	106	1.8		48		MP1
56	1542/16	240	2.4	25u	2.5m⍁	80n⍁		40	500k	200	20m	250kØ	106	1.8		48		MP3
57	1542/25	240	2.4	25u	2.5m⍁	80n⍁		40	500k	200	20m	250kØ	106	1.8		48		MP2a
58	1542/26	240	2.4	25u	2.5m⍁	80n⍁		40	500k	200	20m	250kØ	106	1.8		48		MP4
59	3038/25	240	2.4	30u⍁	.50m†§		20p†§	200 Δ	100G†	200	40m	3.0M†Ø	106	12	90	48		MP2a
60	3138/25	240	2.4	100u⍁	.50m†§		20p†§	200 Δ	100G†	200	40m	3.0M†Ø	106	12	90	48		MP2a
61	MLF100	240	2.9	50u	Δ	500p§	1.0n§	20	100M	200	20m	1.0MØ	100	7.0	60	28		MP10
62	1644A-16	240	4.8	1.0u	100u⍁	1.3n⍁		SE	50k†	200	20m	2.5MØ	140	30		48		MP3
63	1644A-26	240	4.8	1.0u	100u⍁	1.3n⍁		SE	50k†	200	20m	2.5MØ	140	30		48		MP4
64	3271/25	240	4.8	1.0u§	110u		200p		500k†	220	40m	1.0MØ	140	20		28		MP2s
65	SP102	250	1.0	92u⍁	Δ		10p§	400	10G†	200	4.0m	75k§	138	80m†		28		CB2
66	170Δ	250	1.7	20u	5.0m	20n§	150n§	40 Δ	150k	200	10m	10MØ	100	20	80	28		MP22
67	207	250	2.5	200n	20u§	50p§		SE	220k	200	20m	10MØ	180	30		27		MP17a
68	140B⍁	250	5.0	3.0u	Δ		30p	SE	500k	200	40m	1.0M§	140	12		28		CB5
69	142	250	6.2	1.0u	Δ		10p	SE	1.0M	200	40m	1.0M§	132	15		28		CB6
70	142C⍁	250	6.2	1.0u	Δ		10p	SE	1.0M	200	40m	1.0M§	132	15		28		CB7
71	140BHV	350	8.7	3.0u	Δ		30p	SE	500k	200	100m	500k§	140	10		28		CB5

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

4. DIFFERENTIAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE		MAX CURRENT		MIN.-@25°C		MIN. OUTPUT CHAR.@25°C		MIN TRANSFER CHAR @ 25°C				T E M P - C O D E +	DRAWINGS	
		1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	3 DRFT (V/°C)	4 OFST (V)	OFFSET (A)	BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)		CKT.	OUT-LINE Δ=MO
1#	326-01	6.0	9.0m†		30m§	500n§	3.0u§			1.0	5.0m	200k†	66			5C	B001	TO78
2#	MB326	6.0	9.0m†	105u†	30m§	500n§	3.0u§			5.0 †	5.0m†	137k†	66			5C	B001	TO78
3#	M326	6.0	9.0m†	106u†	30m§	500n§	3.0u§			5.0	50m	200k†	66			5C		TO78
4	PA7605§	10 §	95m	1.5u†§	1.0m§†	20u			200 †	3.3		27M†	48 †		45	57	B014a	FP2f
5	PA7606§	10 §	125m	1.5u†§	1.0m§†	20u			10k†	3.3		27M†	48 †		45	5C	B014	FP2f
6	PA7605-39§	10 §	200m						140	1.0		30M†Ø	52		60 †	07	B014a	TO99
7	PL7605-39§	10 §	200m						140	1.0		30M†Ø	52		60 †	07	B014a	FP2c
8#	64B4	12	80m†	28u§	8.0m§	2.0u§†	10u§†	3.5 §	3.0k	5.0		2.0M	28		60	5C	B033	TO100
9#	64B4P	12	80m†	28u§	8.0m§	2.0u§†	10u§†	3.5 §	3.0k	5.0		2.0M	28		60	5C	B033	TO91
10	SN5511§	12	180m†	4.0u†	1.0m§†	600n§†	10u†§	5.2 †	5.0k	5.0 †	♦	3.0k†	70 †		95 †	5A	B029	TO89
11#	327-02	15 §			30m§					9.0 †	1.0kØ	500k†	70			5C	B002	TO78
12#	M327	15 §		35 †	30m§					9.0 †	6.0kØ	1.0M†	70 †			5C		TO78
13#	TAA202	18 §	26m†	10u§†	7.0m			SE	300k	13 †		150k†	32		70	5C	B030	TO84
14	WC115T	18 §	33m	20u§	10n§	30n§			75k	12	2.6m	150k	92		70	57	B030	TO18
15#	TAA201	18 §	33m	20u§	10m§	30n§	1.2u§	SE	75k	12		150k	32		70	57	B030	TO78
16	SFC2525F	18	45m	10u§	10m§	9.0u§	18u§	2.5	2.5k	14		13M	45		90	08		FP⧄
17	SFC2525G	18	45m	10u§	10m§	9.0u§	18u§	2.5	2.5k	14		13M	45		90	08		CN17c
18#	71B4	18 §	100m†	20u§	5.0m§	3.0u§	20u§	5.0k	5.0k	8.0		2.0M	40		70	5C	B034	TO100
19#	71B4P	18 §	100m†	20u§	5.0m§	3.0u§	20u§	5.0k	5.0k	8.0		2.0M	40		70	5C	B034	TO91
20#	74B4	18 §	100m†	20u§	5.0m§	3.0u§	20u§	5.0k	5.0k	8.0		2.0M	40		70	5C	B035	TO101
21#	74B4P1	18 §	100m†	20u§	5.0m§	3.0u§	20u§	5.0k	5.0k	8.0		2.0M	40		70	5C	B035	TO86
22#	TAA242Δ	18 §	120m		6.0m§	3.0u		4.5	8.0k	10	100kØ		63		70	5C	B015	TO91
23	MC1712CP	18 §	120m	5.0u	6.5m	2.5u	12u	4.5 §	32k†	10 †	10kØ	10M	71 †	1.5 †	95 †	07	B010	MP25a
24	DM702D	18 §	120m	10u†	6.0m	3.0u	20u	8.0	8.0k	10	100kØ	30M†	63		70	5C		MP14b
25	DM702F	18 §	120m	10u†	6.0m	3.0u	20u	8.0	8.0k	10	100kØ	30M†	63		70	5C		FP2a
26	DM702T	18 §	†20m	10u†	6.0m	3.0u	20u	8.0	8.0k	10	100kØ	30M†	63		70	5C		CN1b
27	DC702D	18 §	125m	10u†	15m	5.0u	20u	8.0	6.0k	10	100kØ	30M†	60		65	07		MP14b
28	DC702F	18 §	125m	10u†	15m	5.0u	20u	8.0	6.0k	10	100kØ	30M†	60		65	07		FP2a
29	DC702T	18 §	125m	10u†	15m	5.0u	20u	8.0	6.0k	10	100kØ	30M†	60		65	07		CN1b
30	PA7712-39§	18 §	125m	20u	6.5m	2.5u	12u	4.5 §	10k	10	100kØ	1.0M†	66	35 †	70	07		CN1
31	PD7712-39§	18 §	125m	20u	6.5m	2.5u	12u	4.5 §	10k	10	100kØ	1.0M†	66	35 †	70	07	B010	MP⧄
32	PL7712-39§	18 §	125m	20u	6.5m	2.5u	12u	4.5 §	10k	10	100kØ	1.0M†	66	35 †	70	07	B010	FP2c
33	PA7712-31§	18 §	135m	10u	3.0m	1.5u	10u	4.5 §	16k	10	100kØ	1.0M†	68	35 †	80	5C	B010	CN1
34	PD7712-31§	18 §	135m	10u	3.0m	1.5u	10u	4.5 §	16k	10	100kØ	1.0M†	68	35 †	80	5C	B010	MP⧄
35	PL7712-31§	18 §	135m	10u	3.0m	1.5u	10u	4.5 §	16k	10	100kØ	1.0M†	68	35 †	80	5C	B010	FP2c
36	VA3026	18	600m		5.0m	2.0u§	24u§	5.0					32		100 †	5C	Z008a	Δ006AG
37	MC1429G	24		2.0u†	12m§	3.0u§	4.0u§	10 Δ	30k	5.0	♦	200k	27		70	07	B009	CN10c
38	MC1529G	24		9.0u†	9.0m§	2.0u§	4.0u§	10 Δ	40k	5.0	♦	150k	28		70	5C	B009	CN10c
39	MC1526G	24		11u†	7.0m§	2.0u§	3.5u§	10 Δ	60k	7.0	♦	500k	45 †		80	5C	B009	CN10c
40	MC1525G	24		16u†	5.0m§	4.0u§	20u§	10 Δ	2.0k	7.0	♦	1.4M	75 †		80	5C	B008	CN10c
41#	SFC2525	24	65m	5.0u§†	2.0m§†	1.5u§†	7.0u§†		15k†			1.7M†	39		100 †	08	B022	TO100
42#	SFC2525M	24	65m	5.0u§†	2.0m§†	1.5u§†	7.0u§†		15k†			1.7M†	39		100 †	5C	B022	TO100
43#	SN525F	24	135m		4.0m	550n	1.5u	14 †	50k	18 †	♦	45k†	86		100 †	5C	B026	TO84
44#	SN725F	24	135m		7.5m	350n	1.2u	6.0 †	140k†	12	♦	45k†	80		90 †	07	B026	TO84
45#	SN726F	24	135m†		20m	200n§	600n§	5.0 †	200k	9.0	600mØ	120k†	57		70	07	B027	TO89
46#	SN526F	24	190m		20m	500n	1.0u	14 †	350k	12 †	600mØ	120k†	58		77 †	5C	B027	TO89
47	MC1519G	24	300m	5.0u†§	6.0m§	4.0u§		10 Δ	1.8k	24	♦	700k	67		89 †	5C	B006	CN10c
48	TOA7741WP	30	85m		6.0m	30n	90n	24	3.0M	24	10kØ	100k	94	10 †	70	5C		TO116
49	TOA8741W	30	85m		7.5m	30n	90n	24	1.0M	24	10kØ	100k	94	10 †	70	07		TO99
50	TOA8741WF	30	85m		7.5m	30n	90n	24	1.0M	24	10kØ	100k	94	10 †	70	07		TO91
51	TOA8741WP	30	85m		7.5m	30n	90n	24	1.0M	24	10kØ	100k	94	10 †	70	07		TO116
52	ZA803M1	30	90m†	10u	5.0mΔ§	2.0p§		20	100G†	20	14m	2.0MØ†	100 †		100 †	28		MP5bf
53	ZA801T1	30	90m†	50u	5.0mΔ†		25p§	20	100G†	20	7.0m	3.0MØ†	100	6.0	80 †	28		CN43
54	1360B	30	180m†					16	100G	20	40m		60	100 †Ø	80	48		MP⧄
55	3153-25	30	210m	5.0u			50p	20	100G†	20	20m	100k	60	6.0	120	28		MP2a
56	3154-25	30	210m	15u			50p	20	100G†	20	20m	100k	60	6.0	120	28		MP2a
57	TA1100	30	240m†	50u	Δ		100p§	20	100G	40	4.0kØ	1.5k†	60	1.0	100 †	28		MP110a
58	ZA701D20	30	300m†	10u§	8.0m§		500n§	30	300M†			5.0k†	60 †	400m†	74	28	B047	MP58e
59	FA601A	30	360m	50u	Δ	50p	100p	20	100G	20	10m	1.0M		2.0	86	27		MP51
60#	L127T9	36	330m†	600n†	2.0m†	2.5n†	12n†	26 †	300M†	14 †	60u	180k†	40 †		100 †	28	B011	TO100
61	FA602	36	432m†	25u†§	Δ	50p§	100p§	20	100G	22	10m	1.0MØ		2.0	86	27	B045	MP51
62	240	36	432m†	50u§		100p§		20	100G	20	4.0m	1.0M§	60	5.0	80 †	28	B048	MP51a
63	FA601	36	432m†	50u†§	Δ	50p§	100p§	20	100G	22	10m	1.0MØ		2.0	86	27	B045	MP51
64#	L127T2	36	510m	1.5u	10m	15n	50n	24	300M†	10	20u	180k†	35 †		80	5C	B011	TO100
65	3345-14	40 §	12m	3.0u	2.0m		20n§	36 †	300M†	36 †	2.0m†	3.0k	60	20	110	48		MP5ab
66	3346-14	40 §	12m	10u	2.0m		20n§	36 †	300M†	36 †	2.0m†	3.0k	60	20	110	48		MP5ab
67	3233-15	40	48m	10u§	2.0m§Δ		50p§	36	100G†	36 †	10m†	30k	60	1.2 †	70	48		MP2q
68	3234-15	40	48m	25u	2.0m§Δ		50p§	36	100G†	36 †	10m†	30k	60	1.2 †	70	48		MP2q
69	KM22SP	56		10u	1.8mΔ	100n§		22	500k	11	2.5m	5.0MØ	94	50 Ø	80	5C		MP23
70	KM23SP	56		10u	1.8mΔ	100n§		22	500k	11	2.5m	5.0MØ	94	25 Ø	80	5C		MP23
71	3243-25	270	2.7	15u§	5.0m§Δ		50p§	250	100G†	250 †	20m†	10k	60	3.0 †	60	48		MP2a
72	3244-25	270	2.7	50u§	5.0m§Δ		50p§	250	100G†	250 †	20m†	10k	60	3.0 †	60	48		MP2a

5. AUDIO AMPLIFIERS

IN ORDER OF (1) TOT VOLT (2) MAX IDLE POWER (3)MIN UPPER 3dB BW (4)MIN VOLT GAIN (5)TYPE

LINE No.	5 TYPE No.	PWR SUP@25°C RATED SPECS		TRANSFER CHARACTERISTICS @25°C 3dB BANDWDTH						INPUT @25°C		OUTPUT CHAR. @25°C					DRAWINGS	
		1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	3 MIN. UPPER (Hz)	MAX. LOWER (Hz)	4 MIN. VOLT. GAIN (dB)	MAX. NOISE FIGURE (dB)	MAX. THD (%)	ΔTEMP GAIN VAR. (dB)	MIN. RESIST (Ω)	MAX. VOLTS P-P (ΔV)	MAX. RESIST (Ω)	MIN. VOLT. P-P (ΔV)	MIN. POWER (W)	@ LOAD RES. (Ω)	TEMP CODE -+	CKT.	OUT-LINE Δ=MO
1	716-12-5K																	
2	MIC0103H		180m	700k	0.0	57	10 Δ	5.0		20		3.5k				35	C002	CN3
3	MIC0103M		180m	700k	0.0	57	10 Δ	5.0		20		3.5k				35	C002	MP14a
4	717-9-8A§		350m	50M	100k	31†	7.0				10					07	C019	CN7b
5#	TAA500		570m			50†			4.0				1.0				C041	
6	NS7529	1.5	1.5m†	8.0k	200	70†				300k†				500u†				FP3
7#	WC183G	4.5 §	36m	10k	500	84	12 Δ	9.0		40k†Δ		Δ		35m	1.0k	57	C061	TO89
8#	WC183T	4.5 §	36m	10k	500	84	12 Δ	9.0		40k†Δ		Δ		35m	1.0k	57	C061	CN18b
9	RM183G§*	6.0 §	1.5m			92		7.0		40k				3.0		5C	C049	TO84
10#	M5116P	6.0	120m†	15k†	100 †	55†		3.0 †		8.0k†				300m†	8.0	17	C039	MP55
11	uA745-3I	6.3 §	41m†			46†		500m				1.3k†				46	C060	TO86
12	MFC6000	9.0 §	72m					10						250m	10	17	C068	MP166
13#	TAA900S	9.0 §	108m			45	800uΔ	10				4.0 †		1.8	4.0		C097	MP251
14	MFC4000P	9.0 §	1.0					700m†♦						250m		17		MP130
15#	TAA900	11 §	105m				600uΔ	1.0 †♦		30k†				2.0	4.0	2F	C085	MP251
16	MC1302P*	12		25k†	20 †	56	46 §	800m			4.0		2.8		10k	07	C015	MP25a
17	TT0.5W	12 §		30k	DC	20	4.0	10	3.0	50k	660m	300m	12	2.1m	10k	08	C023	TO78
18	TT1.0W	12 §		30k	DC	20	4.0	10	3.0	50k	660m	300m	12	2.1m	10k	08	C023	TO78
19	MC1524G	12	48m	350k		42†		2.0		6.0k			9.0	1.0 †	70	5C	C017	CN10c
20	GEL230F1	12 §	60m	500k†		72	2.0 †	3.0		15k		200	9.0			5B	A007	MP13b
21	PA7602	12 §	84m	90k	120 †	65			2.0 †	20k		50	9.0 †			5C	C020	CN17c
22	PL7602	12 §	84m	90k	120 †	65			2.0 †	20k		50	9.0 †			5C	C020	FP2c
23	MIC0101D	12	90m	700k	0.0	57	10 Δ	5.0		20k		3.5k				35	C001	CN4
24	MIC0101M	12	90m	700k	0.0	57	10 Δ	5.0		20k		3.5k				35	C001	MP14a
25#	SL630G§	12 §	160m			43*	10			3.6kΔ	140m	3.0	7.0	190m	40	07	C050	
26	GEL239F2	12 §	264m	800k†	DC	65	1.8 †	900m		100k		100 †	3.0		3.0k	38		MP13
27#	M5142P§	12	400m	100k†	0.0	38†		3.0		50k	6.0					28	C056	MP55
28	G206	12 §	54	1.0M		39*	50 Δ			10k	12	1.0k	6.0	6.0m%	1.0k		C038	
29#	M5111P#1*	13	105m			65†		200m†		50k†						27	C063a	MP56
30#	M5111P#2*	13	105m			75†		200m†		50k†						27	C063a	MP56
31#	TAA611A	14		50	20k	68		3.0		250k	6.0			1.0		18		TO100
32#	TAA611B	14		50	20k	68		3.0		250k	6.0			1.0		07		
33#	TAA611C	14		50	20k	68		3.0		250k	6.0			1.0		07		
34#	SL402A	14	1.6	30k†	20 †	23	75 †	300m		100M†		200m†		1.5	7.5	07	C066	MP165
35#	SL403A	14	1.6	30k†	20 †	23	75 †	300m		100M†		200m†		2.5	7.5	07	C066	MP165
36#	1460MY	14	2.5			10		2.0		600k				1.0		2A	C045	TO70
37	MIC0201D	16	240m	100k	0.0	54%				1.0k						35	C003	CN4
38	MIC0201M	16	240m	100k	DC	54%				1.0k						35	C003	MP14a
39	GEL239F1	16	352m			65	52 †§	900m		100k		100 †				38	C065	MP14g
40#	M5102AY	18		20k†	50 †	37†	70 §	500m†♦		6.5k†		500m†		3.0 †	4.0	17	C055	CN24
41#	M5102Y	18		20k†	50 †	37†	70 §	500m†♦		6.5k†		500m†		3.0 †	4.0	17	C030	CN24
42	MFC9010	19 §	480m					10		500k†				2.0 †	16		C070a	MP170
43#	TAA611GX1	20		50	20k	68		3.0		250k	6.0			3.3	8	48	C082a	MP247
44	MIC0203	20 §	200m	400k	0.0	55		4.0			8.0	150	5.5			07	C054	
45	716-9-5B	21	298m	2.0M†	0.0	45	8uΔ†	500m	650m	9.0k	10	1.0 †	10	50m	150	07	C010	TO99
46	MFC9000	21 §	600m					10		500k†				4.0	8.0		C070a	MP170
47	MC1316P	22 ♦	132m†	100 ∅	20k	5.0†*	70 §	2.0				700m†		2.0	16		C074	
48	MIC0102	22 §	154m	1.0M†	0.0	60	10u*	5.0	6.0	100k	5.0	8.0k	5.0			27	C052	MP14n
49	MIC0106	22 §	154m	1.0M†	0.0	60	10u*	5.0	6.0	100k	5.0	8.0k	5.0			27	C053	MP14a
50	GEL234F1	22 §	330m	100k	30		80	10		100k	600M	2.0 †		1.0	22	6E	C007	MP13a
51	GEL266F1	22 §	330m	100k	30		70 †	5.0		40k		1.5		1.5	16	5C	C008	MP100
52	GEL222F1	22 §	550m	15k†	55 †	72†Δ	55 §	3.0		40k	182	1.0 †		1.0	22	5C	C006	MP13a
53#	ZLA1A§	23 §	50m†	500k		28				300		30 †				5C	C028	CN23
54#	TAA621	24	2.1m	15k	30	80	7.0u*	100m						4.0	16	2C		MP183
55	GEL237F1	24 §	360m	100k	30		75 †	5.0		40k		1.5 †		2.0	16	5C	C008	MP13a
56	A24	24	1.8	20k§	20	50	124 ∅	500m	2.0	1.5k	2.0	60	35	250m	600	05		CB⧄
57	A40	24	8.0	20k§	20	60	124 ∅	750m	2.0	1.5k	2.0	60	216	10	600	05		CB⧄
58#	TL1316P	25 §	150m†			44†	1.0MΔ†	2.0 ♦†				700m†		2.0	16	27	C098	MP272
59#	TL1316PC	25 §	150m†			44†	1.0mΔ†	2.0 ♦†				700m†		2.0	16	27	C098	MP281
60	126	25	200m	500m§	100k	20	7.0 *			1.0G		50 †				25		MP⧄
61	1452	28	224m	3.0 §	5.0k	3.0	10mΔ	500m		1.0G†	5.0	100 †	5.0			25		MP193c
62	1451	28	224m	3.0 §	5.0k	6.1	5.0mΔ	500m		1.0G†	5.0	100 †	5.0			25		MP193f
63	161	28	280m	10k§	200k	10	164	250m		1.0G†	150	100 †	8.0			25		MP197
64#	M5110P#2*	30	600m			65†		15m†		50k†	10		22 †			27	C063	MP56
65#	M5110P#1*	30	600m			75†		30m†		50k†	10		22 †			27	C063	MP56
66	GEL263F1	30 §	600m	100k	30		70 †	1.6 †		50k	1.0	5.0	27	3.5	16	5C	C008	MP100
67	GEL263S1	30	600m	100k	30		70 †	5.0		50k	1.0	5.0	27	3.5	16	5C	C008a	MP100
68	GEL277S1	30	600m	100k	0.0		70 †	1.0		1.0m		1.5		2.0	8.0	5C		MP13
69	GEL246F1	34 §	680m	100k	30	50	70 †	1.6 †			34m*	600m†		5.0	16	5C	C008	MP100
70	GEL246S1	37	740m	100k	30		70 †	5.0			34m*	600m		5.0	16	5C	C008	MP100
71	430§	50	450m	25k	0.0	26*	90 §	500m	1.0	100k	10	1.0	20	4.0	8.0	28		OCT
72	360PM	50	750m	15k	50	55*	125 ∅	200m	1.0	50	1.0	1.0	40	700m	600	28	A041	OCT
73	435§	60	500m	50k	0.0	60*	115 ∅	100m	1.0	100k	10	50	50	2.0	50	5C		CN⧄
74#	M5122Y	60	1.5 †	80k†	20 †	30†*	86 §	50m†		100k†			48			17	C064	CN24

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

6. RF/IF AMPLIFIERS

IN ORDER OF (1) TOT VOLT (2) MAX IDLE POWER (3)POWER GAIN (4)UNTUNED 3dB BW (5)TYPE No.

LINE No.	5 TYPE No.	PWR SUP@25°C RATED SPECS		MIN TRANSFER CHARACTERISTICS @25°C						INPUT CHAR @25°C			OUTPUT CHAR. @25°C			T E M P	C O D E	DRAWINGS
		1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	3 PWR GAIN @ 50Ω LOAD & SOURCE (dB)	SPEC FREQ (Hz)	4 UN-TUNED 3dB BW (Hz)	Y21 (mhos)	Y12 (mhos)	MAX. NF (dB)	MIN. VOLT. P-P (ΔV)	MAX. COND. (mhos)	MAX. CAP. (F)	MIN. VOLT. P-P (ΔV)	MIN. COND. (mhos)	MAX. CAP. (F)	-+	CKT.	OUT-LINE Δ=MO
1	PA7713§	6.0 §	30m	18	60M	60M			7.0 †							5C	D011	CN17c
2	PL7713§	6.0 §	30m	18	60M	60M			7.0 †							5C	D011	FP2c
3	PA7600§	6.0 §	108m	51 †	10M	18M†			5.0 †				1.5 †			5C	D009	CN17c
4	PL7600§	6.0 §	108m	51 †	10M	18M†			5.0 †				1.5 †			5C	D009	FP2c
5#	SL612G	6.0 §	26	32 *♦	1.7M	10M			3.0 †	700m†						07	D021	
6#	SL610G	6.0 §	108	18 *♦	30M	85M			4.0 †	700m†	1.0m†					07	D020	
7#	SL611G	6.0 §	108	24 *♦	30M	50M			4.0 †	700m†	1.0m†					07	D020	
8#	TAA380A	7.5 §	200m	60	5.5M					400u†	330u†	7.0p†	120m†	33u†	4.0p†	26	Z023a	CN27
9	MC1110G	9.0 §	36m	22	100M	100M†	16m	64u†	6.0	5.6 Δ	500u	800f		150u	1.1p	5C	D006	CN13
10	CA3028	9.0 §	100m	35 §	11M	120M♦	100m†	300n†	9.0		6.2m†			0.0 †		5C	D015	TO99
11#	TAA981	11	70m	86 *	10M					50m	10m	100p				07	D027	TO100
12#	TAA991	11	70m	86 *	10M					50m	10m	100p				07	D028	TO101
13	GEL189F1	12 §		80 Δ♦	4.5M	5.0M†			9.0	8.0 Δ						5B	D003	MP13
14#	ZLA30	12 §♦	56m	38	70M	200M†	25u	70m	4.7		3.5m	9.0p		100u†	4.5p		D018	CN23
15	LM703	12	62m	28 %	100M	100M	21m	2.0u†	8.0	10m	430u	9.0p	1.8	20u†	3.0p	5C	D002	CN1a
16	LM703C	12	66m	28 %	100M	100M	21m	2.0u†	8.0	10m	500u	11p	1.8		3.0p	07	D002	CN1a
17	LM703E	12	66m	28 %	100M	100M	21m	2.0u†	8.0	10m	1.0m	12p	1.8	30u†	4.0p	07	D002	CN1a
18#	TAA710A	12 §	132m†						40 †	250u†			1.0			06	D024	TO116
19#	TAA710B	12 §	132m†						40 †	250u†			1.0			06	D024	MP50
20	RM703	12 §	170m				29m		8.0		280u	9.0p	1.7	20u†	3.0p	5C	D004	CN1b
21	703BE	12	170m			150M	29m	2.0u	8.0 †	10 Δ	430u	9.0p	3.4 †	20u†	3.0p	5C	D004	TO99
22	703CE	12	170m			150M	23m	2.0u	8.0	10 Δ	500u	11p	3.4 †	50u	3.0p	07	D004	TO99
23	LA703	12 §	170m			150M	21m	2.0u†	6.0 †		1.0m	12p		50u	4.0p	5C	D004	TO99
24	LA703C	12 §	170m			150M	22m	2.0u†	6.0 †		500u	11p		60u	4.0p	07	D004	TO99
25	uA703-5D	12	170m			150M	29m	2.0u	8.0 †	10 Δ	430u	9.0p	3.4 †	20u†	3.0p	5C	D004	CN1h
26	uA703C-5D	12	170m			150M	23m	2.0u†	8.0 †	10 Δ	500u	11p	2.8 †	50u	3.0p	07	D004	CN1h
27	PA7703-39	12 §	170m	22 †	10M	80M†	23m		8.5	10 Δ	500u	11p	1.7	50u	3.0p	07	D004	CN16
28	PA7703-49	12 §	170m	43	10M	100M♦	23m	2.0u†	8.5	10 Δ	1.0m	9.0p†	1.7	50u†	2.6p†	07	D004	CN16
29	PA7601	12	240m	16	100M	110M†					11m	7.0p		10m	5.0p	5A	D010	CN17c
30	PL7601	12	240m	16	100M	110M†					11m	7.0p		10m	5.0p	5A	D010	FP2c
31	uA719C-5F§	12	300m	50 *	10M	10M†	1.4 †		7.0 †	10 Δ	300u	6.3p	2.2 †	130u†	5.4p	07	D008	TO100
32	uA719-5F§	12	300m	53 *	10M	10M†	1.4 †		7.0 †	10 Δ	300u†	6.3p†	2.2 †	130u†	5.4p	5C	D008	TO100
33	717-9-8A§	12	350m	80 †	4.5M	9.0M†	2.2			10 Δ	210u†	12p†		50u†	6.0p†	07	C019	CN7b
34#	M5142P§	12	400m	67 †*	4.5M					6.0 Δ	90u†	4.5p	700m†	10u†	4.0p†	28	C056	MP55
35#	TBA261	15	600m								210u	3.0p	1.8			07		
36#	316-04	20 §	150m†	32 †	100M		61m†	41u†	7.5		7.0m†	9.6p†		200u	1.9p†	5C	E002	TO78
37#	M316	20 §	150m†	32 †	100M		60m†	46u†	7.5		6.5m†	9.0p†		200u†	2.5p†	5C		TO78
38	911BE	24	230m	25 †	200M	250M♦	25m	1.0u†		10	2.5m	24p	9.5	10m†	2.0p	5C	D005	TO100
39	911BJ	24	230m	25 †	200M	250M♦	25m	1.0u†		10	2.5m	24p	9.5	10m†	2.0p	5C	D005	MP⍁
40	911CE	24	230m	25 †	200M	250M♦	25m	1.0u†		10	2.5m	24p	9.5	10m†	2.0p	0A	D005	TO100
41	911CJ	24	230m	25 †	200M	250M♦	25m	1.0u†		10	2.5m	24p	9.5	10m†	2.0p	0A	D005	MP⍁

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

7. WIDEBAND AMPLIFIERS

IN ORDER OF (1) TOT VOLT (2) MAX IDLE POWER
(3)MIN UPPER 3dB BW (4)MIN VOLT GAIN (5)TYPE

	5	PWR SUP@25°C RATED SPECS		TRANSFER CHARACTERISTICS @25°C					INPUT CHAR. @25°C		OUTPUT CHAR. @25°C			TRANSIENT CHAR. @25°C		T C E O M D P E -+	DRAWINGS	
LINE No.	TYPE No.	1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	3dB BW 3 MIN. UPPER (Hz)	MAX. LOWER (Hz)	4 MIN. VOLTAGE GAIN (dB)	MAX. NOISE FIGURE (dB)	MAX. THD (%)	MIN RESIST (Ω)	MAX P-P VOLTS (ΔV)	MAX. RESIST (Ω)	MIN. VOLT P-P (ΔV)	LOAD RESIST (Ω)	MAX TIME RISE (s)	DELAY (s)		CKT.	OUT-LINE Δ=MO
1#	SI4001		2.5			32			2.0k	2.5		80					E046	MP220
2	PA7713§	6.0 §	30m	9.0M		30	7.0 †									5C	D011	CN17c
3	PL7713§	6.0 §	30m	9.0M		30	7.0 †									5C	D011	FP2c
4#	1040M	6.0 §	35m	40M	65	19 Δ											E022	TO74
5	NE501GΔ	6.0 §	53m	14M	0.0	23 *	7.0		1.1k	8.0	50		600	16n	15n	07	E014	TO91
6	NE501KΔ	6.0 §	53m	14M	0.0	23 *	7.0		1.1k	8.0	50		600	16n	15n	07	E014	TO100
7	SE501GΔ	6.0 §	53m	14M	0.0	23 *	7.0		1.1k	8.0	50		600	16n	15n	5C	E014	TO91
8	SE501KΔ	6.0 §	53m	14M	0.0	23 *	7.0		1.1k	8.0	50		600	16n	15n	5C	E014	TO100
9	MFC4010	6.0 §	500m			60	1.0 Δ									17		MP130a
10	MFC4010P	6.0 §	500m			60	1.0 Δ									17		MP130a
11	PA7600§	6.0 §	108	50M	0.0	35						1.5	♦			5C	D009	CN17c
12	PL7600§	6.0 §	108	50M	0.0	35						1.5	♦			5C	D009	FP2c
13#	1480MY	9.0 §		15M†		40			900 †	1.4 †							E024	TO74
14#	SL20#1	9.0 §	144m	10M	0.0	18			900 †		10 †	2.5	♦			5E	E025	CN11b
15#	SL23	9.0 §	144m	10M	0.0	18			900 †		10 †	2.5	♦			5C	E027	CN11b
16#	SL24	9.0 §	144m	10M	0.0	18			900 †		10 †	2.5	♦			5C	E027	CN15a
17#	SL20#2	9.0 §	144m	10M	0.0	24 %*			65k†		400 †	2.5	♦			5E	E025	CN11b
18#	SL21	9.0 §	144m	10M	0.0	24 %			65k†		400 †	2.5	♦			5E	E026	CN11b
19#	SL22	9.0 §	144m	10M	0.0	24 %			65k†		400 †	2.5	♦			5E	E026	CN15a
20#	SL201C#1	9.0 §	144	10M	0.0	9			530		7.0	2.5	♦			5H	E025	CN11b
21#	SL201B#1	9.0 §	144	10M	0.0	11			530		7.0	2.5	♦			5H	E025	CN11b
22#	SL201C#2	9.0 §	144	10M	0.0	17 %*			60		325	2.5	♦			5H	E025	CN11b
23#	SL201B#2	9.0 §	144	10M	0.0	22 %*			60		325	2.5	♦			5H	E025	CN11b
24	PA7605§	10 §	95m	27M		250	9.0 Δ		200		40					57	B014a	FP2f
25	PA7606§	10 §	125m	27M		250	8.0 Δ		10k		40					5C	B014	FP2f
26	uA751-3H	10 §	139m	30M†	0.0	51 $	7.5 Δ†		140 Δ	2.0	50 †	1.2	1.2k	25n	20n	07	E042	FP2a
27	uA751-5B	10 §	139m	30M†	0.0	51 $	7.5 Δ†		140 Δ	2.0	50 †	1.2	1.2k	25n	20n	07	E042	TO99
28#	M5113P	10	187m	20k†	100k†	60		1.8 †	3.0k†	6.0	31k†					27	E021	MP14j
29#	M5113T	10	187m	20M†	100k†	60			3.0k†	6.0	32k†					27	E021	TO100
30	PA7605-39§	10 §	200m	30M†	0.0	52			140		40 †	1.5	40	20n	8.0n	07	B014a	TO99
31	PL7605-39§	10 §	200m	30M†	0.0	52			140		40 †	1.5	40	20n	8.0n	07	B014a	FP2c
32	956	10	300m	25M	100	20	30 Δ		100		100	2.8	100k			14		MP⍁
33	CMC602	12 §	80m†	100M†	0.0	20 †										5C	E005	
34#	WC1146T	12 §	84m	30M		18 Δ	4.0 †		83 †		624 †	2.5 †	♦			07	E001	CN11a
35#	WM1146Q	12 §	84m	35M		20 Δ	4.0 †		83 †		624 †	1.5	♦			5C	E001a	CN11a
36#	TAA231	12 §	84m	45M†	30	20 Δ	4.0 †		83k		1.9k	1.5	♦			07	E001	TO99
37#	TAA232	12 §	84m	45M†	30	20 Δ	4.0 †		83k		1.9k	1.5	♦			5C	E001	TO91
38	ULN2103M	12	120m†	50M		30			1.2k†		750 †	6.7 †	1.0k			08	E015	MP48
39	920BE	12 §	120m	120M§	0.0	20 †§			500	14	10	3.0	1.0k			5C	E005	TO96
40	920CU	12 §	120m	120M§	0.0	20 †§			500	14	10	3.0	1.0k			5C	E005	TO110
41#	SFC2510	12	165m	40M		40 †			6.0k†	10		4.5 †		10n	10n	07	E019	TO99
42#	SFC2510P	12	165m	40M		40 †			6.0k†	10		4.5 †		10n	10n	07	E019	TO91
43#	SFC2510PM	12	165m	40M		40 †			6.0k†	10		4.5 †		9.0n	9.0n	57	E019	TO91
44	SN5511§	12	180m†	3.0M†		56			5.0k†Δ	16	800	5.0	♦			5A	B029	TO89
45	MC1509F	12	220m	40M†	0.0	30 §	4.5 Δ	5.0	6.0k	10	35	4.5 †	5.0k	12n	12n	5C	E008	TO90
46	MC1510F	12	220m	40M†	0.0	30 §	4.5 Δ	5.0	6.0k	10	35	4.5 †	5.0k	12n	12n	5C	E008a	TO90
47	SFC2510F	12	220m	40M†	0.0	39	12 *	5.0	6.0k†	1.0	35 †	4.5 †	5.0k	12n	9.0n†	5C	E008a	TO91
48	SFC2510G	12	220m	40M†	0.0	39	12 *	5.0	6.0k†	1.0	35 †	4.5 †	5.0k	12n	9.0n†	5C	E008a	TO99
49	SFC2510PF	12	220m	40M†	0.0	39	12 *	5.0	6.0k†	1.0	35 †	4.5 †	5.0k	12n	9.0n†	5C	E008a	TO91
50	SFC2510PG	12	220m	40M†	0.0	39	12 *	5.0	6.0k†	1.0	35 †	4.5 †	5.0k	12n	9.0n†	5C	E008a	TO99
51	SFC2510PMF	12	220m	40M†	0.0	39	12 *	5.0	6.0k†	1.0	35 †	4.5 †	5.0k	12n	9.0n†	5C	E008a	TO91
52#	SFC2510M	12	220m	40M†	0.0	40 †	5.0 *†	5.0	6.0k†	10	35 †	4.5 †	5.0k	12n	12n	5C	E008a	TO99
53#	1470MY	12	240m	50M†		30 †											E023	CN⍁
54	SG733N	12	288m	50M†		46 †	12u†*		4.0k†Δ	2.0 *	20	3.0	400	5.0n†	7.5n†	07	E040	MP39a
55	uA733C-3F	12	288m	120M†	0.0	47			10kΔ	2.0	20 †	3.0	1.0k	12n	10n	07	E040	TO91
56	uA719-5F§	12	300m	50M†	0.0	22			3.0k†		4.0k†	7.0	100k			5C		TO100
57	uA719C-5F§	12	300m	50M†	0.0	22			3.0k†		4.0k†	7.0	100k			07		TO100
58	CMC602-1	12 §	120	100M§	0	16 †§			500		10	3.0	1.0k			C	E005	TO96
59	CMC602-4	12 §	120	100M§	0	16 †§			500		10	3.0	1.0k			C	E005	TO110
60	G106	12 §	192	4.0M	40	39 *	50 Δ		10k	12	500	12	1.0k				E033	
61#	TBA440Q	13 §	234m	9.0M†		50 §			1.9k†	150u†	25k	4.0 †				27	E051	MP217a
62	901BE	15 §	13m	40M		22		1.0	520	260m	520	5.0	♦			5C	E003	TO99
63	901CE	15 §	13m	40M		22		1.0	520	260m	520	5.0	♦			07	E003	TO99
64	903BE	15 §	96m	60M		13			100		1.7k†	2.5	500k			5C	E004	CN⍁
65	903BR	15 §	96m	60M		13			100		1.7k†	2.5	500k			5C	E004	CN10
66	903CE	15 §	96m	60M		13			100		1.7k†	2.5	500k			07	E004	CN⍁
67	903CR	15 §	96m	60M		13			100		1.7k†	2.5	500k			07	E004	CN10
68	9118	15	2.1	100MØ		20	30 Δ		50k	2.8	50	2.8	50k			05		MP⍁
69	PA7712-39§	18	125m	1.0M	0.0	66			32k†	7.5	600	7.0	10k	12n		07	B010	CN1
70	PD7712-39§	18	125m	1.0M	0.0	66			32k†	7.5	600	7.0	10k	12n		07	B010	MP⍁
71	PL7712-39§	18	125m	1.0M	0.0	66			32k†	7.5	600	7.0	10k	120n		07	B010	FP2c
72	PA7712-31§	18	135m	1.0M	0.0	68			40k†	7.5	500	7.0	10k	120n		5C	B010	CN1
73	PD7712-31§	18	135m	1.0M	0.0	68			40k†	7.5	500	7.0	10k	120n		5C	B010	MP⍁
74	PL7712-31§	18	135m	1.0M	0.0	68			40k†	7.5	500	7.0	10k	120n		5C	B010	FP2c
75#	ZLA1A§	22 §	50m†	1.5M	0.0	18			3.2k		30 †					5C	C028	CN23
76	SA21	24 §	540m	60M†		19	8.0 †		1.6k†	8.0	1.5 †	10	1.2k			5C	E017	MP14c
77	SA20	24 §	540m	100M†		20	6.0 †		1.6k†	8.0	1.5 †	12	1.2k			5C	E017	MP14c
78	MIC5840	26 §		400M§	225M	5.0 Δ						6.0 Δ†	50			58	E044	MP171
79	A501§	30	1.0 †	10M	0.0	113 †	5.0 *		100k	20	1.0	20	200	20n	10n	28		MP83
80	A501M§	30	1.0 †	10M	0.0	113 †	5.0 *		100k	20	1.0	20	200	20n	10n	5C		MP83
81	A502§	30	1.0 †	10M	0.0	126 †	5.0 *		100k	20	1.0	20	200	20n	10n	28		MP83
82	A502M§	30	1.0 †	10M	0.0	126 †	5.0 *		100k	20	1.0	20	200	20n	10n	5C		MP83
83	FA501§	30	3.0 †	50M		0.0	5.0 *		100G	10	5.8	10	50	10n	10n	28		MP⍁

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V
(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	4 TYPE No.	1 NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE		2 MAX INPUT LINE VOLT (V)	MIN OUT/IN DIFF. (ΔV)	3 MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUT-PUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE REG		MAX LOAD REG			MAX TRANSIENT RECOVERY		TEMP CODE -+	DRAWINGS	
			LOW (V)	HIGH (V)							LINE VOLT CHG. (ΔV)	OUTPUT VOLT. CHG. (%)	LOAD CUR. CHG. (ΔA)	OUT VOLT. CHG. (%)	MIN RIPPL REJ. (dB)	@LINE CHG. (s)	@LOAD CHG. (s)		CKT.	OUT-LINE Δ=MO
1	SPH0070		5.0	10	50	3.0	54						1.0	500m	40			5H	F052	CN22b
2	SPH0071		10	30	50	3.0	54						1.0	500m	40			5H	F052a	CN22b
3	SPH0140		5.0	10	50	3.0	54						1.0	500m	40			5H	F054	CN22b
4	SPH0141		10	30	50	3.0	54						1.0	500m	40			5H	F054	CN22b
5	J10-3	3.0			40	5.0	1.8	1.0	1.0m		800m	5.0m	1.0	5.0m	86			5C	G010	MP34a
6	VR1030	3.0	3.0	12	40	3.0	2.0	500m	20m	1.5m	1.0	3.0m	125m	80m	80					MP25b
7#	SI3052A	5.0			15		50	2.0	200m	2.5m	1.5	2.5	225m	2.0	40				Z059	MP128
8#	SI3052C	5.0			15		50	2.0	200m	2.5m	1.5	2.5	225m	2.0	40				Z059a	MP128
9	8220	5.0			30	3.0	1.2	300m	10m	500u	2.0	60m	300m	60m	66	20u	20u	5C		MP⧄
10	uA309BN	5.0			35		2.5		50m†		18	1.0	495m	100mΔ				0C	F077	TO3
11	uA109BN	5.0			35		3.2		50m†		18	1.0	495m	100mΔ				5E	F077	TO3
12	uA209BN	5.0			35		3.2		50m†		18	1.0	495m	100mΔ				2E	F077	TO3
13	J10-5	5.0			40	5.0	1.8	1.0	1.0m		1.0	5.0m	1.0	5.0m	86			5C	G010	MP34a
14	VR1050	5.0	3.0	12	40	3.0	2.0	500m	40m	2.5.n	1.0	3.0m	125m	100m	80					MP25b
15	CTS870	5.0			40	10 *	10	750m	600m		3.0	100m	750m	100m	60			5C	F041	CN22a
16	896	6.0			30	2.0	1.2	300m	10m	500u	2.0	60m	300m	60m	66	20u	20u	5C		MP⧄
17	J10-6	6.0			40	5.0	1.8	1.0	1.0m		1.1	5.0m	1.0	5.0m	86			5C	G010	MP34a
18	J11	6.0	3.0	9.0	40	5.0	1.8	1.0	1.0m		1.1	5.0m	1.0	5.0m				5C	G010	MP34a
19	VR1060	6.0	3.0	12	40	3.0	2.0	500m	50m	3.0m	1.0	3.0m	125m	100m	80					MP25b
20	20-216A	8.5	8.0	30	40		1.8	200m	100m	39u	1.0	9.4m♦	90m	13m	60					
21	20-216B	8.5	8.0	30	40		1.8	200m	100m	750u	1.0	9.4m♦	90m	13m	60					
22	897	9.0					5.0	600m	40m	1.0m			300m	100m		30u	30u	5C		MP⧄
23#	ZN401T	9.0	8.0	10	36		300m			330m%	10	100m						6C	F062	CN⧄
24	J20-9	9.0			40	5.0	1.8	1.0	1.0m		1.4	5.0m	1.0	5.0m	94			5C	G010	MP34a
25	VR1090	9.0	3.0	12	40	3.0	2.0	500m	80m	4.5m	1.0	3.0m	125m	110m	80					MP25b
26#	WC109T	10	4.0	16		5.0	1.0	150m	50m†			500mΔ	150m	500m	40 †			07	F036	CN18b
27	980J	10 §			16			10m		1.0mΔ		30uΔ	10m	1.0m				07		MP136
28	980K	10 §			16			10m		500uΔ		30uΔ	10m	1.0m				07		MP136
29	J20-10	10			40	5.0	1.8	1.0	1.0m		1.5	5.0m	1.0	5.0m	94			5C	G010	MP34a
30	LA300-M	11	2.0	20	35	3.0	400m	25m			22	200mΔ	12m	500m		4.0u	3.0u	07	F001	MP⧄
31	LA300F	11	2.0	20	35	3.0	400m	25m			22	200mΔ	12m	500m		4.0u	3.0u	07	F001	TO91
32	LA300G	11	2.0	20	35	3.0	400m	25m				200mΔ	12m	500m		4.0u	3.0u	07	F001	CN7
33	GEL264S1	12	3.0	22	25	3.0	5.0	1.2	5.0	670u	5.0	1.0	400m	1.0			30	5C	F063	MP100
34	PC511H	12			28		500m	200m	1.0 †	1.0m	2.0	1.0	100m	250m	30			5C	F018	FP7
35	PC513H	12 ♦			28		500m	200m	1.0 †	1.0m	2.0	1.0	100m	250m	30			5C	F019	FP7
36	VRN12	12 ♦			28		1.0	300m		300u			100m	300m	46			5F	F029	FP8
37	VRP12	12			28		1.0	300m		300u			100m	300m	46			5F	F028	FP8
38#	SI3121A	12			31		50	1.5	200m	1.2m	2.7	700m	225m	500m	53				Z060	MP128
39	8100	12 §	5.0	20	40	5.0	500m	30m	1.0	1.0m	30	100m	30m	100m	60	50u	50u	06	F034	CN20
40	DVR100A	12	12	30	40	6.0	500m	100m	200m	1.2m	20	50m	100m	100m	55	5.0u	5.0u	07	F069	CN17d
41	DVR100B	12	12	30	40	6.0	500m	100m	200m	1.2m	20	50m	100m	100m	55	5.0u	5.0u	5C	F069	CN17d
42	8217	12			40	3.0	1.2	300m	30m	1.0m	2.0	70m	300m	60m	66	20u	20u	5C		MP⧄
43	J20-12	12			40	5.0	1.8	1.0	1.0m		1.7	5.0m	1.0	5.0m	94			5C	G010	MP34a
44	VR1120	12	3.0	12	40	3.0	2.0	500m	100m	6.0m	1.0	3.0m	125m	120m	80					MP25b
45	MC1467G	14	14	15	25	2.2	800m	200m	40m†	5.0m†Δ		6.0mΔ		800uΔ	92 †			07	F084	CN10b
46	MC1467R	14	14	15	25	2.2	2.4	200m	40m†	5.0m†Δ		6.0mΔ		800uΔ	92 †			07	F084	CN30
47	MN210	14	8.0	20	30	4.0	400m	50m		2.0mΔ		1.0mΔ		2.0mΔ				5C	F089	FP7e
48	MC1567G	14	14	15	30	2.2	800m	200m	40m†	5.0m†Δ		6.0mΔ		800uΔ	92 †			5C	F084	CN10b
49	MC1567R	14	14	15	30	2.2	2.4	200m	40m†	5.0m†Δ		6.0mΔ		800uΔ	92 †			5C	F084	CN30
50	WC330R	14	1.0	27	30	3.0	5.0	2.0	2.0m†		9.6	2.0	1.0	2.0	65 †			07		
51	2105	15	13	17	25	15	300m	50m		1.0 %	3.0	100m§	50m	50mΔ	26			07	F038a	TO105
52	R15§	15	12	18	30	24 *		25m		20mΔ		5.0m	25	5.0m			28			
53	601Δ	15	9.0	21	30	4.0	900m	100m	10m	6.0m	20	10m	100m	10m	68			28		MP191
54	TVR2002	15	3.0	27	30	2.5	800	200m	200m		1.0	100m	100		34	100m	100m	07		TO100
55	1515-25*	15 §			32			100m		20uΔ				1.0				28		MP2n
56	CMC513-1	15	14	16	35	1.5	300m			2.0m	90m	10	50m	300m	36			07	F007	CN11
57	CMC513-3	15	14	16	35	1.5	300m			2.0m	90m	10	50m	300m	36			07	F008	CN15
58	CMC513	15	15	16	35	1.5	500m			1.0m	60m	10	50m	200m	36			5C	F007	CN11
59	CMC513-2	15	15	16	35	1.5	500m			1.0m	60m	10	50m	200m	36			5C	F008	CN15
60	CMC513-4	15	14	16	35	1.5	500m			2.0m	90m	10	50m	300m	36			07	F009	CN12
61	2101	15	14	16	40	20 *		100m		10mΔ	70	10m	100m	10m	80			58		MP125
62	8218	15			40	3.0	1.2	300m	30m	1.0m	2.0	70m	300m	60m	66	20u	20u	5C		MP⧄
63	VR1150	15	14	36	40	2.0	1.5	250m	25m	1.8m†		40 Δ	250m	3.0mΔ	68 †			48		MP25b
64	216A	15	8.0	30	40	8.0	1.8	350m	100m	1.5m	1.0	5.0m	90m	13m	60			5H		CN2
65	216B	15	8.0	30	40	8.0	1.8	350m	100m	7.5m	1.0	5.0m	90m	13m	60			5H		CN2
66	226A	15	8.0	37	40	2.5	1.8	200m	100m	2.0m	28	10m	90m	10m	76			5H		CN2
67	226B	15	8.0	37	40	2.5	1.8	200m	100m	10m	28	10m	90m	10m	76			5H		CN2
68	J20-15	15			40	5.0	1.8	1.0	1.0m		2.0	5.0m	1.0	5.0m	94			5C	G010	MP34a
69	VR2150	15 ♦	9.0	36	40	3.0	2.0	500m	50m	1.5m	1.0	6.0m	125m	40m	75					MP25b
70	9641-101	15 §	14	16	56	20m	1.2		1.0			30 Δ		250m	29 †			28		MP108
71	CMC300	16	2.0	30	35	3.0	300m§	25m		2.0 %		200mΔ	12m	500m		3.0u	3.0u	07	F065	CN7e
72	CMC200	16	2.0	30	40	3.0	400m§	25m		1.0 %		200mΔ	12m	500m		3.0u	3.0u	28	F065	CN1c
73	LA200-M	16	2.0	30	40	3.0	400m	25m			32	200mΔ	12m	500m		4.0u	3.0u	5E	F001	MP⧄
74	LA200F	16	2.0	30	40	3.0	400m	25m			32	200mΔ	12m	500m		4.0u	3.0u	5E	F001	TO91
75	LA200G	16	2.0	30	40	3.0	400m	25m				200mΔ	12m	500m		4.0u	3.0u	07	F001	CN1c
76	LM300	16	2.0	30	40	3.0	400m§	25m		1.0m%		200m	2.0m	2.0		3.0u	3.0u	07	F001	CN7
77	SG100N	16	2.0	30	40	3.0	400m§	40m		1.0 %§		200mΔ		500m		3.0u		5C	F001	MP39a
78	CMC100	16	2.0	30	40	3.0	500m§	25m		1.0 %		200mΔ	12m	500m		3.0u	3.0u	5H	F065	CN1c
79	LA100-M	16	2.0	30	40	3.0	500m	25m			32	200mΔ	12m	500m		4.0u	3.0u	5E	F001	MP⧄
80	LA100G	16	2.0	30	40	3.0	500m	25m				200mΔ	12m	500m		4.0u	3.0u	5E	F001	CN1c
81#	M5199Y	17	2.5	32	35	9.0 *	3.3	600m	120m	10m†Δ		30mΔ	50m	10mΔ				27	D022	CN24
82#	SI3500M	17	9.0	25	40	4.0	30	1.5		2.5m	2.0	100m	150m	300m	60				F0[illegible]7	MP219a
83	GEL265S1	18	3.0	34	37	3.0	5.0	1.2	5.0	670u	5.0	1.0	400m	1.0			30	5C	F063	MP100
84	CMC305	18	4.5	30	40	3.0	500m§	25m		1.0 %		60mΔ	12m	50m	50			07	F065	CN1c
85	PH5203	18	7.0	30	40	5.0	750m	200m	100m	1.0m†	20	240m	50m	100m	60	800n†	800n†	5C		
86	VR1180	18	14	36	40	2.0	1.5	250m	25m	1.8m†		40 Δ	250m	3.0mΔ	68 †			48		MP25b
87	J20-18	18			40	5.0	1.8	1.0	1.0m		2.3	5.0m	1.0	5.0m	94			5C	G010	MP34a
88	VR2180	18 ♦	9.0	36	40	3.0	2.0	500m	60m	1.8m	1.0	6.0m	125m	40m	75					MP25b
89	SG723N	19	2.0	37	40	3.0	400m§	150m		15m%		200mΔ		150m	86 †	20u	10u	07	F030	MP39a
90	CMC723	19	2.0	37	40	3.0	800m§	150m		1.0 %	28	5.0	49m	600m	86 †	5.0u†	5.0u†	07		CN17d
91	MS723	19	2.0	37	40	3.0	800m	150m	50m	15m§Δ	28	200m	49m	600m	74 †	5.0u	5.0u	6G	F085	FP2q
92	TVR2723E	19	2.0	37	40	3.0	800m	150m	50m	1.0m%	28	5.0	50m	600m	86 †	5.0u†	5.0u†	07		TO116
93	ULN2723K	19	2.0	37	40	3.0	800m	250m		15mΔ§	3.0	100m	49m	200m	74 †	5.0u	5.0u	07	F030b	TO100
94	ULS2723K	19	2.0	37	40	3.0	800m	250m		15mΔ§	3.0	100m	49m	150m	74 †	5.0u	5.0u	5C	F030b	TO100
95	VA5R72331	19	2.0	37	40	3.0	800m	150m	50m	20uΔ§	2.8	200m	49m	600m	74			5C		TO96
96	VA5R72339	19	2.0	37	40	3.0	800m	150m	50m	1.0m%	28	5.0	49m	600m	86	5.0u	5.0u	07		TO96
97	723BN	19	2.0	37	40	3.0	900m	150m		15mΔ§	3.0	100mΔ	49m	200mΔ	74 †			5C	F030c	TO116
98	723CN	19	2.0	37	40	3.0	900m	150m		15mΔ§	3.0	100mΔ	49m	200mΔ	74 †			07	F030c	TO116
99	ULN2723A	19	2.0	37	40	3.0	1.0	250m		15mΔ§	3.0	100m	49m	200m	74 †	5.0u	5.0u	07	F030c	MP14w
100	ULS2723A	19	2.0	37	40	3.0	1.0	250m		15mΔ§	3.0	100m	49m	150m	74 †	5.0u	5.0u	5C	F030c	MP14w
101	TVR2000	20	3.0	37	40	3.0	800m	150m	100m		1.0	50m	100m		40	100n	100n	5C		TO100
102	TVR2001	20	3.0	37	40	2.5	800m	150m	200m		1.0	100m	100m		34	100n	100n	07		TO100
103	VR1200	20	14	36	40	2.0	1.5	250m	25m	1.8m†		40 Δ	250m	3.0mΔ	68 †			48		MP25b
104	J30-20	20			40	5.0	1.8	1.0	2.0m		2.5	5.0m	1.0	5.0m	88			5C	G010	MP34a
105	VR2200	20 ♦	9.0	36	40	3.0	2.0	500m	70m	2.0m	1.0	6.0m	125m	40m	75					MP25b
106	CMC104	20 ♦	15m	40	50	2.0	500m§	25m		1.0 %		100mΔ	25m	100m	60	3.0u	3.0u	5C		CN17c
107	CMC5000	20 ♦	3.0	40	50	3.0	500m§	50m		1.0 %		60mΔ	12m	50m	48	10u†	10u†	5F	F066	CN1c
108	LM204	20	15m	40	50	2.0	500m§	25m			100m	100m	20m		46 †			07	F002	CN10e
109	J20-21	21			40	5.0	1.8	1.0	1.0m		2.6	5.0m	1.0	5.0m	94			5C	G010	MP34a
110#	WM330R	22	1.5	43		3.0	5.0	2.0	2.0m†		4.8	2.0 †	1.0	2.0	65 †			5C	F035	CN22

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V (3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	4 TYPE No.	1 NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE LOW (V)	ADJUSTABLE OUTPUT VOLT. RANGE HIGH (V)	2 MAX INPUT LINE VOLT (V)	MIN OUT/IN DIFF. (ΔV)	3 MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUT-PUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE REG LINE VOLT CHG. (ΔV)	MAX LINE REG OUTPUT VOLT. CHG. (%)	MAX LOAD REG LOAD CUR. CHG. (ΔA)	MAX LOAD REG OUT VOLT. CHG. (%)	MIN RIPPL REJ. (dB)	MAX TRANSIENT RECOVERY @LINE CHG. (s)	MAX TRANSIENT RECOVERY @LOAD CHG. (s)	TEMP CODE -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO
1	VR1220	22	14	36	40	2.0	1.5	250m	25m	1.8m†		40 Δ	250m	3.0mΔ	68 †			48		MP25b
2	VR2220	22 ♦	9.0	36	40	3.0	2.0	500m	70m	2.2m	1.0	6.0m	125m	40m	75					MP25b
3	SG105N	22	4.5	40	50	3.0	400m§	40m		1.0 %§		60mΔ		100m	40	3.0u	3.0u	07	F003	MP39a
4	CMC105	22	4.5	40	50	3.0	500m§	25m		1.0 %	1.0	60mΔ	12m	100m	48	1.0u	1.0u	5F	F065	CN1c
5	CMC205	22	4.5	40	50	3.0	500m§	20m		1.0 %		60mΔ	12m	100m	80	2.0u	2.0u	2A	F065	CN1c
6	LA105G	22	4.5	40	50	3.0	500m					60mΔ	12m	50m	48	5.0u	3.0u	5C	F003	CN1c
7	LA205F	22	4.5	40	50	3.0	500m					60mΔ	12m	50m	48	5.0u	3.0u	28	F003	TO91
8	LA205G	22	4.5	40	50	3.0	500m					60mΔ	12m	50m	48	5.0u	3.0u	28	F003	CN1c
9	LA305F	22	4.5	40	50	3.0	500m					60mΔ	12m	50m	48	5.0u	3.0u	07	F003	TO91
10	LA305G	22	4.5	40	50	3.0	500m					60mΔ	12m	50m	48	5.0u	3.0u	07	F003	CN1c
11#	SI3241B	24			35		20	500m	200m	2.4m	4.1	700m	45m	400m	53				Z060	MP128
12	VRN24	24 ♦			40		1.0	300m		300m			100m	300m	46			5F	F029	FP8
13	VRP24	24			40		1.0	300m		300m			100m	300m	46			5F	F028	FP8
14	VR1240	24	14	36	40	2.0	1.5	250m	25m	1.8m†		40 Δ	250m	3.0mΔ	68 †			48		MP25b
15	J30-24	24			40	5.0	1.8	1.0	2.0m		3.0	5.0m	1.0	5.0m	88			5C	G010	MP34a
16	VR2240	24 ♦	9.0	36	40	3.0	2.0	500m	80m	2.4m	1.0	6.0m	125m	40m	75					MP25b
17#	SI3241A	24			40		50	1.0	200m	2.4m	4.2	700m	105m	400m	53				Z060	MP128
18	4JD13V§	25	10	40			400m	40m	50	100mΔ								1C		TO98
19	D13V	25	10	40			400m	5.0m	50	100mΔ								1C	F045	TO98
20	J21	26	21	32	40	5.0	1.8	1.0	1.0m		2.7	5.0m	1.0	5.0m	94			5C	G010	MP34a
21	J31	26	21	32	40	5.0	1.8	1.0	2.0m		2.7	5.0m	1.0	5.0m	88			5C	G010	MP34a
22	VR1270	27	14	36	40	2.0	1.5	250m	25m	1.8m†		40 Δ	250m	3.0mΔ	68 †			48		MP25b
23	VR2270	27 ♦	9.0	36	40	3.0	2.0	500m	90m	2.7m	1.0	6.0m	125m	40m	75					MP25b
24	J30-28	28			40	5.0	1.8	1.0	2.0m		3.3	5.0m	1.0	5.0m	88			5C	G010	MP34a
25	CTS879	29	1.0	57	60	3.0	4.0	2.0	70m			500mΔ	1.0	600m	60			5C	F035b	CN22
26	VR1320	32	14	36	40	2.0	1.5	250m	25m	1.8m†		40 Δ	250m	3.0mΔ	68 †			48		MP25b
27	J30-32	32			40	5.0	1.8	1.0	2.0m		3.7	5.0m	1.0	5.0m	88			5C	G010	MP34a
28	VR2320	32 ♦	9.0	36	40	3.0	2.0	500m	110m	3.2m	1.0	6.0m	125m	50m	75					MP25b
29	CTS878	32	8.0	57	60	3.0	4.0	2.0	70m			500mΔ	1.0	600m	60			5C	F035a	CN22
30	WT49	35 §					12	250m		3.0mΔ				30m	52			05	F059	CB⧄
31	VR1360	36	14	36	40	2.0	1.5	250m	25m	1.8m†		40 Δ	250m	3.0mΔ	68 †			48		MP25b
32	VR2360	36 ♦	9.0	36	40	3.0	2.0	500m	120m	3.6m	1.0	6.0m	125m	50m	75					MP25b
33#	SI4120A	120	115	125	250	10	100	1.1	300m	20m					40				F083	MP221

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

9. VOLTAGE COMPARATORS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP@25°C RATED SPECS		INPUT CHARACTERISTICS						OUTPUT CHAR. @ 25°C				W/C TRANSFER CHAR. @25°C		T C E O M D P E	DRAWINGS	
				OVER OPERATING TEMP. RANGE				@25°C		MIN. OUTPUT VOLTAGE		MAX. OUT RES.	MIN. CURR SINK				CKT.	OUT-LINE Δ=MO
		1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	MAX. VOLTAGE 3 DRFT (V/°C)	4 OFSET (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN CM RANGE (ΔV)	STROBE CUR-MAX (A)	POS (V)	NEG (V)	(Ω)	(A)	VOLT. GAIN (dB)	RESP. TIME (s)	-+		
1#	M5126T	5.0	50m		150m		25n	4.2		4.9			60m	70		27	G021	TO100
2	NE518GΔ	9.0 §♦	225m	13u	1.0m†§	10u§	28u†§	10 Δ	1.9m†	5.0	1.2	100	2.8m†	64	40u*†	07	G004	TO91
3	NE518KΔ	9.0 §♦	225m	13u	1.0m†§	10u§	28u†§	10 Δ	1.9m†	5.0	1.2	100	2.8m†	64	40u*†	07	G004	TO100
4	SE518GΔ	9.0 §♦	225m	13u	1.0m†§	10u§	28u†§	10 Δ	1.9m†	5.0	1.2	100	2.8m†	64	40u*†	5C	G004	TO91
5	SE518KΔ	9.0 §♦	225m	13u	1.0m†§	10u§	28u†§	10 Δ	1.9m†	5.0	1.2	100	2.8m†	64	40u*†	5C	G004	TO100
6#	SFC2525EC	14					75u									07		MP117
7	HT73	16	3.0					10		0.0	5.5						G015	CB⧄
8#	SN72710	18 §	110m†	7.5u†	10m	25u		10		2.5	1.0	200 †	1.6m	57	40n†	07	G001	TO89
9	LA711Δ	18 §	126m	5.0u†	4.5m	20u	150u		2.5m	4.5 †		200 †		57	40n†	5C	G006	TO100
10	DC711Ø	18 §♦	130m†	5.0u†	6.0m	20u	150u	10	1.2m†	3.5 †	0.0	200 †	800m†	58	40u†	07	G006	CN17c
11	DM711Ø	18 §♦	130m†	5.0u†	6.0m	20u	150u	10	1.2m†	3.5 †	0.0	200 †	800m†	58	40u†	5C	G006	CN17c
12	RM711Ø	18 §♦	130m†	5.0u†	6.0m	20u	150u	10	1.2m†	3.5 †	0.0	200 †	800m†	58	40u†	5C	G006	CN6b
13#	SFC2106M	18 §♦	142m	10u	3.0m	7.0u	45u	10	3.3m	2.5				90	40n†	5C	G005	TO99
14#	SFC2206	18 §♦	142m	10u	3.0m	7.5u	45u	10	3.3m	2.5				90	40n†	28	G005	TO99
15#	SFC2306	18 §♦	142m	20u	6.5m	7.5u	40u	10	3.3m	2.5				90	40n†	07	G005	TO99
16	RM711AQ*	18 §♦	150m	5.0u	2.0m	3.0u	30u	10	2.5m	2.5	1.0	200 †	680m	63	40n†	5C	G006	FP2k
17	710-1-3H	18 §♦	150m	10u	3.0m	7.0u	45u	10		2.5	0.0	200 †	2.0m	62	40u†	5C	G001	FP2d
18#	710-1-36	18 §♦	150m	10u	3.0m	7.0u	45u	10		2.5	0.0	200 †	2.0m	62	40 †	5C		TO91
19	PA7710-31	18 §♦	150m	10u	3.0m	7.0u	45u	10		2.5	0.0	200 †	2.0m	62	40u†	5C	G001	FP2c
20	PD7710-31	18 §♦	150m	10u	3.0m	7.0u	45u	10		2.5	0.0	200 †	2.0m	62	40u†	5C	G001	MP⧄
21	PL7710-31	18 §♦	150m	10u	3.0m	7.0u	45u	10		2.5	0.0	200 †	2.0m	62	40u†	5C	G001	CN1
22	SG710N	18 §♦	150m	10u	3.0m	7.0m	45u	10		2.5	0.0	200 †	2.0m	62	40u†	07	G001	TO116
23	TDC1710	18 §♦	150m	10u	3.0m	7.0u	45u	10		2.5	0.0	200 †	2.0m	62	40u†	5C	G001	TO79
24#	TL1710	18 §	150m	10u	3.0m	3.0u§	45u⧄	10		2.5	1.0	200 †	2.0m	61		5C	G001	TO99
25	uA710-3H	18 §♦	150m	10u	3.0m	7.0u	45u	10		2.5	0.0	200 †	2.0m	62	40u†	5C	G001	FP2e
26	SG710BN	18 §	150m	20u§	5.0m§	5.0u§	25u§	10		2.5	1.0	200 †	1.6m	60	40n†	5C	G001	MP39a
27#	710-9-6E	18 ♦§	150m	20u	6.5m	7.5u	40u	10		2.5	0.0	200 †	1.6m	60	40n†	07		MP39
28#	710-9-36	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	0.0	200 †	1.6m	60	40 †	07		TO91
29#	M51710T	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	1.0	200	1.6m	60	100n†	27	G001	TO78
30	PA7710-39	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	0.0	200 †	1.6m	60	40u†	07	G001	CN1
31	PD7710-39	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	0.0	200 †	1.6m	60	40u†	07	G001	MP⧄
32	PL7710-39	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	0.0	200 †	1.6m	60	40u†	07	G001	FP2c
33	RM710BD	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	1.0	200 †	1.6m	60	40n†	5C	G001	MP40
34	RM710BQ	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	1.0	200 †	1.6m	60	40n†	5C	G001	FP2k
35	RM710BT	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	1.0	200 †	1.6m	60	40n†	5C	G001	TO99
36	SG710BT	18 §	150m	20u§	6.5m	7.5u	45u	10		2.5	1.0	200 †	1.6m	60	40n†	5C	G001	TO99
37	TDC2710	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	0.0	200 †	1.6m	60	40u†	07	G001	TO79
38	TDC2710E	18 §	150m	20u	6.5m	7.5u	40u	10		2.5	0.0	200	1.6m	60	40	07	G001	TO116
39#	TL1710C	18 §	150m	20u	6.5m	7.5u	40u⧄	10		2.5	1.0	200 †	1.6m	60		07	G001	TO99
40#	TL3710C	18 §	150m	20u	6.5m	7.5u	40u⧄	10		2.5	1.0	200 †	1.6m	60		07	G001	MP39f
41	SG711BN	18 §	150m	20u§	7.5m§	15u§	100u§	10	2.5m	2.5	1.0	200 †	500u	63	40n†	07	G006	MP39a
42	uA710B-3F	18 §♦	150m	20u⧄	7.5m	15u	80u	10		2.5	0.0	200 †	1.6m	60	40u†	5C	G001	TO91
43	SG711BT	18 §	150m	20u§	10m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	54	40n†	5C	G006	TO100
44	LM710AF	18 §♦	160m	10u	3.0m	3.0u	45u	10		2.5	0.0	200 †	2.0m	62	40u†	5C	G001	FP2
45	LA710CF	18 §♦	170m	20u	6.5m	7.5u	40u	10		2.5	0.0	200 †	1.7m	60	40u†	07	G001	FP2
46	LM710CF	18 §♦	170m	20u	6.5m	7.5u	40u	10		2.5	0.0	200 †	1.7m	60	40n†	07	G001	FP2n
47	LA710AG	18 §♦	174m	10u	2.0m	7.0u	45u	10		2.5	0.0	200 †	2.0m	62	40u†	5C	G001	CN1c
48	LA710CG	18 §♦	174m	20u	6.5m	7.5u	40u	10		2.5	0.0	200 †	1.7m	60	40u†	07	G001	CN1c
49	DM710F	18 §♦	175m	5.0u	6.0m	20u	150u	10		2.5	0.0	200 †		58	40u†	5C	G001	FP2
50	DM710H	18 §♦	175m	5.0u	6.0m	20u	150u	10		2.5	0.0	200 †		58	40u†	5C	G001	CN1a
51#	SN52710	18 §	175m	5.0u†	6.0m	20u		10		2.5	1.0	200 †	1.6m	57	40n†	5C	G001	TO89
52	DC710F	18 §♦	175m	7.5u	10m	25u	150u	10		2.5	0.0	200 †		58	40u†	07	G001	FP2
53	DC710H	18 §♦	175m	7.5u	10m	25u	150u	10		2.5	0.0	200 †		58	40u†	07	G001	CN1a
54	RM711BD*	18 §♦	180m	20u	6.0m	25u	150u	10	2.5m	2.5	1.0	200 †	1.6m	57	40n†	5C	G006	MP40
55	RM711BQ*	18 §♦	180m	20u	6.0m	25u	150u	10	2.5m	2.5	1.0	200 †	1.6m	57	40n†	5C	G006	FP2k
56	RM711BT*	18 §♦	180m	20u	6.0m	25u	150u	10	2.5m	2.5	1.0	200 †	1.6m	57	40n†	5C	G006	TO100
57	711-1-5FØ	18 §♦	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	0.0	200 †	500u	58	40u†	5C	G006	TO100
58#	711-1-36	18 §♦	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	0.0	200 †	500u	58	40 †	5C		TO91
59	LM711AFØ	18 §♦	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	0.0	200 †	500u	58	40u†	5C	G006	FP2
60	PA7711-31Ø	18 §♦	200m	5.0u†	6.0m	20u	150u	10		2.5	0.0	200 †	500u	54	40u†	5C	G006	TO100
61	PA7711-39Ø	18 §♦	200m	5.0u†	6.0m	2.0u	150u	10		2.5	0.0	200 †	500u	54	40u†	07	G001	TO100
62	PD7711-31Ø	18 §♦	200m	5.0u†	6.0m	2.0u	150u	10		2.5	0.0	200 †	500u	54	40u†	5C	G001	MP⧄
63	PD7711-39Ø	18 §♦	200m	5.0u†	6.0m	2.0u	150u	10		2.5	0.0	200 †	500u	54	40u†	07	G001	MP⧄
64	PL7711-31Ø	18 §♦	200m	5.0u†	6.0m	2.0u	150u	10		2.5	0.0	200 †	500u	54	40u†	5C	G001	FP2c
65	PL7711-39Ø	18 §♦	200m	5.0u†	6.0m	2.0u	150u	10		2.5	0.0	200 †	500u	54	40u†	07	G001	FP2c
66	SG711N	18 §♦	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	0.0	200 †	500u	58	40u†	07	G006	TO116
67	TDC1711Ø	18 §♦	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	0.0	200 †	500u	58	40u†	5C	G006	TO100
68	TDC6711Ø	18 §♦	220m	5.0u†	6.0m	20u	150u	10	2.5m	4.5 †	0.0	200 †	500u	58	40u†	5C	G007	TO100
69	TDC6711FØ	18 §♦	220m	5.0u†	6.0m	20u	150u	10	2.5m	4.5 †	0.0	200 †	500u	58	40u†	5C	G007	TO91
70	LM711CFØ	18 §♦	230m	5.0u†	5.0m	15u	100u	10	2.5m	4.5	0.0	200 †	500u	57	40n†	07	G006	FP2n
71	711-9-5FØ	18 §♦	230m	5.0u†	10m	25u	150u	10	2.5m	2.5	0.0	200 †	500u	57	40u†	07	G006	TO100
72#	711-9-36	18 §♦	230m	5.0u†	10m	25u	150u	10	2.5m	2.5	0.0	200 †	500u	57	40 †	07		TO91
73#	M51711TØ	18 §♦	230m	5.0u†	10m	25u	150u	10	2.5m	5.5 †	1.0	200	500n	57	100n†	27	G006	TO100
74	TDC2711Ø	18 §♦	230m	5.0u†	10m	25u	150u	10	2.5m	4.5 †	0.0	200 †	500u	57	40u†	5C	G006	TO100
75	TDC2711E	18 §	230m	5.0u†	10m	25u	150u	10	2.5	4.5	0.0	200	500m	57	40	5C	G006	TO116
76#	TL1711C*	18 §	230m	5.0u†	10m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	56		07	G006	TO100
77#	TL2711C*	18 §	230m	5.0u†	10m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	56		07	G006	TO116
78	uA711B-3FØ	18 §♦	230m	5.0u†	10m	25u	150u	10	2.5m	2.5	0.0	200 †	500u	57	40u†	07	G006	TO91
79	TDC7711Ø	18 §♦	250m	5.0u†	10m	25u	150u	10	2.5m	4.5 †	0.0	200 †	500u	57	40u†	07	G007	TO100
80	TDC7711FØ	18 §♦	250m	5.0u†	10m	25u	150u	10	2.5m	4.5 †	0.0	200 †	500u	57	40u†	07	G001	TO91
81#	SAL111Ø	18	300m		10m	25u	150u			2.5		200		57	80n	06	G013	TO100
82	TDC4711Ø	18 §♦	300m	5.0u†	6.0m	20u	150u	10	2.5m	4.5 †	0.0	200 †	5.0	58	40u†	5C	G006	TO100
83	TDC8711Ø	18 §♦	300m	5.0u†	6.0m	20u	150u	10	2.5m	4.5 †	0.0	200 †	500u	58	40u†	5C	G007	TO100
84	TDC8711FØ	18 §♦	300m	5.0u†	6.0m	20u	150u	10	2.5m	4.5 †	0.0	200 †	2.6m	58	40u†	5C	G007	TO91
85	RC1514D	18 §	300m	5.0u†	6.5m	7.5u	40u	10	2.5m	2.5	1.0	200 †	1.6m	60	40n†	07	G012	MP40
86	RC1514DP	18 §	300m	5.0u†	6.5m	7.5u	40u	10	2.5m	2.5	1.0	200 †	1.6m	60	40n†	07	G012	MP40
87	TDC5711Ø	18 §♦	300m	5.0u†	10m	25u	150u	10	2.5m	4.5 †	0.0	200 †	5.0m	57	40u†	07	G006	TO100
88	TDC9711Ø	18 §♦	300m	5.0u†	10m	25u	150u	10	2.5m	4.5 †	0.0	200 †	2.6m	57	40u†	07	G007	TO100
89	TDC9711FØ	18 §♦	300m	5.0u†	10m	25u	150u	10	2.5m	4.5 †	0.0	200 †	2.6m	57	40u†	07	G007	TO91
90	RM4443Ø	18 §♦	300m	10u†	3.0m	7.0u	40u	10		2.5	0.0	200 †	2.0m	62	40u†	5C	G003	FP6a
91	RM4443D*	18 §♦	300m	10u	3.0m	7.0u	45u	10		2.5	1.0	200 †	2.0m	62	40n†	5C	G003	MP40
92	RM4443J*	18 §♦	300m	10u	3.0m	7.0u	45u	10		2.5	1.0	200 †	2.0m	62	40n†	5C	G003	FP6a
93	RC4443CØ	18 §♦	300m	20u	6.5m	7.5u⧄	40u	10		2.5	0.0	200 †	1.6m	60	40u†	07	G003	MP40
94	RC4443D*	18 §♦	300m	20u	6.5m	7.5u	40u	10		2.5	1.0	200 †	1.6m	60	40n†	07	G003	MP40
95	RC4443J*	18 §♦	300m	20u	6.5m	7.5u	40u	10		2.5	1.0	200 †	1.6m	60	40n†	07	G003	FP6a
96	LM206	24	162m	10u	3.0m	7.0u	45u	10	3.3m	2.5				92 †	40n†	28	G005	CN1c
97	LM306	24	162m	20u	6.5m	7.5u	40u	10	3.3m	2.5	0.0	500m	100m	92 †	40n†	07	G005	CN1c
98#	MT106	24	163m	10u	3.0m	7.0u⧄	45u	10	3.3m	2.5				92 †	40n†	5C	G005	CN1c
99#	MT106-883	24	163m	10u	3.0m	7.0u⧄	45u	10	3.3m	2.5 †						5C		CN1c
100#	MT306	24	163m	10u	3.0m	7.0u⧄	45u	10	3.3m	2.5				92 †	40n†	28	G005	CN1c
101#	MT206	24	163m	20u	6.5m	7.5u⧄	40u	10	3.3m	2.5				92 †	40n†	07	G005	CN1c
102	RM710CD	28 §♦	150m		6.5m			14		0.0	1.0		1.6m	62	40n†	07	G001	MP40
103	RM710CQ	28 §♦	150m		6.5m			14		0.0	1.0		1.6m	62	40n†	07	G001	FP2k
104	RM710CT	28 §♦	150m		6.5m			14		0.0	1.0		1.6m	62	40n†	07	G001	TO99
105	RC711CD*	28 §♦	180m		6.0m			14		0.0	1.0			62	40n†	07	G006	MP40
106	RC711CQ*	28 §♦	180m		6.0m			14		0.0	1.0			62	40n†	07	G006	FP2k
107	RC711CT*	28 §♦	180m		6.0m			14		0.0	1.0			62	40n†	07	G006	TO99
108	RC4443CD*	28 §♦	300m		6.5m			14		0.0	1.0		1.6m	62	40n†	07	G003	MP40
109	RC4443CJ*	28 §♦	300m		6.5m			14		0.0	1.0		1.6m	62	40n†	07	G003	FP6a
110	5233	30	1.0m	20u	10m	10u	1.0u	10		1.5	200m	300	5.0m	50	3.0u	26		

9. VOLTAGE COMPARATORS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP@25°C RATED SPECS 1 TOT. VOLT (ΔV)	PWR SUP@25°C RATED SPECS 2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX. VOLTAGE 3 DRFT (V/°C)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX. VOLTAGE 4 OFSET (V)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX CURRENT OFFSET (A)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX CURRENT BIAS (A)	INPUT CHARACTERISTICS @25°C MIN CM RANGE (ΔV)	INPUT CHARACTERISTICS @25°C STROBE CUR-MAX (A)	OUTPUT CHAR. @ 25°C MIN. OUTPUT VOLTAGE POS (V)	OUTPUT CHAR. @ 25°C MIN. OUTPUT VOLTAGE NEG (V)	OUTPUT CHAR. @ 25°C MAX. OUT RES. (Ω)	OUTPUT CHAR. @ 25°C MIN. CURR SINK (A)	W/C TRANSFER CHAR. @25°C VOLT. GAIN (dB)	W/C TRANSFER CHAR. @25°C RESP. TIME (s)	TEMP -+	CODE	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO
1	5378	30	90m	10u	10m	300n	1.0u	20		10	0.0	300	5.0m	90	15u	27			
2	HA2111	30	123m†	4.0m	20n	150n	28 †							106 †	200n†	5C			TO99
3	HA2211	30	123m†	4.0m	20n	150n	28 †							106 †	200n†	28			TO99
4	HA2311	30	187m†	10m	70n	300n	28 †							106 †	200n†	07			TO99
5	7100§	30	240m		10m§			14		10	10	300	20m	84		07		Z027	CN20a
6	5501	30	240m	10u	1.0m	400n	1.0u	14		10	10	300	25m	80	1.0u	07		G011	CN20a
7	220§	30	240m†	25u§		1.0u§		30								28			MP113
8	5385	30	300m	10u	10m	1.0u	1.0u	6.0		2.0	0.0	2.0k	1.0m	60	100u	27			
9	RM4441J*§	30 §♦	400m					20	1.5m	7.0	400m§		15M		30n*	5C		G014	FP6a
10	5372A	30	450m	20u	10m	1.0u	1.0u	20		10	0.0	300	2.0m	80	15u	26			
11#	SFC2524EC	44					75u									07			MP117

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

10. MISCELLANEOUS

IN ORDER OF (1) USE (2) TOTAL VOLTAGE
(3) MAX IDLE POWER & (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	PWR SUP @25°C RATED SPECS		MIN. INPUT CHAR. @25°C		OUTPUT CHAR. @25°C		TEMP CODE	DRAWINGS		GENERAL DESCRIPTION
			2 TOT. VOLT. (ΔV)	3 MAX. IDLE P (W)	IMPEDANCE (Ω)	VOLT RANGE (ΔV)	MAX. IMP. (Ω)	MIN VOLT RANGE (ΔV)	-+	CKT.	OUT-LINE Δ=MO	
1	RC102T		18 §♦	120m	4.5 §			10	07	A015	TO99	
2	A190	1	30	120u	100G	24		24	28		MP58c	Gv 1.0†;BW 3dB 800kHz†;SR 500mV/uS*;Rl 10kΩ.
3	A191	1	30	120u	100G	24		24	28		MP58c	Gv 1.0†;BW 3dB 800kHz†;SR 500mV/uS*;Rl 10kΩ.
4	B32	1	30	30m†	10k	30	5.0 †	20	28		MP5j	Gv .95*;FP BW 1.0MHz*;ΔIo 100mA*;Rl 200 Ω.
5	P66A	1	30	42m				20	28		CB1	Gv .95*;FP BW 10kHz*;Rl 500 Ω.
6	PP66	1	30	42m				20	04		MP6b	Gv .95*;FP BW 10kHz*;Rl 500 Ω.
7	PP66A	1	30	42m				20	04		MP6j	Gv .95*;FP BW 10kHz*;Rl 100 Ω;SR 1V/usec†.
8	H6030C	1	30	60m	3.0M	40 †	45	20	4A		MP6h	Gv .95*;BW 13MHz*;SR 75V/us*;Rl 500 Ω.
9	P5	1	30	68m	30k†	32 †	150	20	06		MP⍁	Gv .95*;Rl 500 Ω†;FP BW 20kHz*;SR 02V/us*.
10#	SFC2102§	1	30	120m	100G		2.5	20	5C	A002	TO99	Gv .999*;Rl 0.8Ω*
11	1719-17	1	30	150m			100 *	20	28		MP5ah	Gv 1.0†.
12	LA302	1	30	165m	1.0G	30	2.5	20	07	Z046	CN7	Gv.99;RL8.0kΩ;Vo15mVΔ;Ii50nAΔ.
13	C800	1	30	180m		20		20	28		MP176	BW 3dB 2.0MHz min;MIN RL 1.000 (†0,-.05%)
14	FA201	1	30	180m	1.0T†	20	200m	20	28		MP5s	Gv 1.0;BW3dB 500kHz*;SR 2.0V/usec†;Rl 2.0kΩ.
15	FA202	1	30	180m	1.0T†	20	200m	20	28		MP5s	Gv 1.0;BW 3dB 500kHz*;SR 2.0V/usec†;Rl 2.0kΩ.
16	FA203	1	30	180m	1.0T†	20	200m	20	28		MP5s	Gv 1.0;BW 3dB 500kHz*;SR 2.0V/usec†;Rl 2.0kΩ.
17	8106	1	30	240m	12M	1.2	130M†			Z029	CN20c	Source:Io 3.0mA;Cd 5.0pf max.
18	1520-15	1	30	300m			200 *	20	5A		MP2j	Gv 1.0†;FP BW 300kHz*;SR 18V/us*;Rl 200 Ω.
19	9693	1	30	300m	2.0M	20	10	20	58		MP⍁	Booster;Voltage Gain .93;SR 400V/us.
20	8162A	1	30	360m	1.0k	26	10	20 †	58		MP⍁	Fast Booster;Voltage Gain .95;SR 1.8kV/uS.
21	9271	1	30	360m	50k	20	10	20	25		MP⍁	FP BW 10MHz; SR 600V/usΔ; RL.33 ohms*.
22	9708	1	30	360m	100T	20	1.0k	20	58		MP⍁	Gv 1.0;BW 30kHz;SR .2V/us;ΔIO 20mA.
23	3016-25	1	30	450m			400 *	20	5A		MP2f	Gv 1.0†;FP BW 300kHz*;SR 18V/us*;Rl 100 Ω.
24	BA100	1	30	450m	250k	32 Δ	5.0	20	28		MP6	Gi 66dB*;FP BW 500kHz*;SR 25V/usec*;Rl 100Ω†.
25	9146A	1	30	540m	10G	20	30	20 †	58		MP⍁	FET Fast Follower;SR 600V/usec;BW 30MHz.
26	9162	1	30	660m	3.0k		10	20	05		MP⍁	BW 100MHz.
27	9146	1	30	750m	3.0M	20	30	20	55		MP⍁	FP BW 10MHz;SR 600V/usΔ;Rl 3.0M Ω*.
28	1518	1	30	900m†	50k†			20	48		MP⍁	Offset Volt .60V† at 25°C;Output Current-55±85mA
29	3069-49	1	30	1.1			1.0k*	20	5A		MP2k	Gv 1.0†; FP BW 50kHz*; SR 3.0V/us*; RL50 ohm.
30	9682	1	30	1.2	50k	24	5.0	20 †	27		MP⍁	High Power Booster;Voltage Gain .95;SR 6.0kV/uS.
31	B34	1	30	1.5	40k	30	3.0	20	28		MP⍁	Gv .95*;FP BW 15kHz†;ΔIo 200mA*;Rl 100 Ω.
32	9691	1	30	2.2	1.0M	22	1.0	20 †	27			Gv 1.0;BW 10MHz;SR 30V/uS;ΔIo 20A.
33	FA501§	1	30	3.0 †	100G	10	5.8	10	28		MP⍁	Gv 1.0;BW 3dB 50MHz†;SR 300V/usec;RL 50Ω
34	RM102T	1	36 ♦	120m	1.0G†	30		20	5C	A002	TO99	Gv.9996†.
35#	MT110	1	36 ♦	144m	10G	30 Δ	2.5	20	5C	A122	CN1c	Volt.follower;Gv .999V/V*;Vos 4.0mVΔ.
36#	MT210	1	36 ♦	144m	10G	30 Δ	2.5	20	28	A122	CN1c	Volt.follower;Gv .999V/V*;Vos 4.0mVΔ.
37	RC102C	1	36 ♦	150m	1.0G†	30		20	07	A002	TO99	Gv.9995†.
38	BML120	1	48	1.2	50k*		200 *	40	04		MP10a	Gv .95*; RL .20k ohms†.
39	BA720	1	48	1.9	100M†	20	150m†	20				Buffer Amp;ΔVo 20V;Accuracy ± 1.0mV.
40	SH720	1	48	3.2	100M†	20	150m†	20				Buffer Amp;ΔVo 20V;Accuracy ± 1.0mV.
41	SH725	1	48	4.8	80M†	22	150m†	20				Buffer Amp;ΔVo 20V;Accuracy ± 1.2mV.
42	9110	1	50	500m	100k	20	10	20	56		MP⍁	FP BW 100kHzΔ;SR 6.0V/usΔ;Rl 100 Ω*.
43	3017-25	1	52	780m			200 *	40	5A		MP2f	Gv 1.0†;FP BW 150kHz*;SR 18V/us*;Rl 20 Ω.
44	9698	1	120	960m	10M	100	30	100	58		MP209	Gv .93;BW 60MHz;SR 1000V/uS;ΔIo 100mA.
45	OSPB50-50	1	120	1.1	1.0M		10 *	100	28		CB2	Gv 10*;FP BW 20kHz*;SR 7.0V/us;Rl 10 Ω*.
46	OSPB100-10	1	240	876m	1.0M†	30 †	3.0 *	200	28		CB2a	Gv 20†; FP BW 10kHz†; RL 66k ohms†.
47	SN56502	2	12	276m	500 †	10u	200 †	140m	5C	Z082	MP⍁	Log range 120dBV;Log linearity±500mdBV;BW40MHzΔ.
48	2397D	2	24	240m	50 †	100m†	92 †	2.5 †	05		MP⍁	Dynamic Range 80db;Error ±5.0%Δ;Freq. 5.0MHz.
49	2216	2	24	480m	1.0 †	5.0	1.0 †	5.0 †	05		MP⍁	Dynamic Range 66db;Error 1.0%Δ;Freq. 1.0kHz.
50	2391	2	30	30m			100 †	1.0 †	25		MP⍁	Dynamic Range 180db;Error 3.0%Δ;Freq. 1.0kHZ.
51	2369	2	30	90m	10k	30	1.0	300m	55			Log Range 100dB;Acc 3.0%;BW 10kHz;Tc .30%/°C.
52	4007-40	2	30	150m	10k	10	20 *	20	06		MP2b	Log;Rng 40dB;Acc 2.0%Δ;Dr 5.0mV/°C#;BW 5.0kHz*.
53	4008-40	2	30	150m	10k	10	20 *	20	06		MP2b	Log; Rng 60dB; Acc 2.0%Δ; Dr 10mV/C#; BW 2.5kHz*.
54	2519	2	30	240m	1.0		1.0	20	27		MP⍁	Log Range 140db;ΔIi 100pA to 10mA;BW 30Hz.
55	2245A	2	30	600m	10G	10	1.0	6.0	06			Log Range 80dB;Acc 3.0%;BW 10kHz;Tc .01%/°C.
56	2435	2	30	750m	1.0k*	1.0 Δ	1.0	8.0	58			Log Range 100dB;Acc 1.0%;BW 10kHz;Tc .01%/°C.
57	2268	2	30	1.8	1.0k*	1.0 Δ	30	1.0	05			Log Range 60dB;Acc 3.0%;BW 10MHz;Tc .10%/°C.
58	2533	2	30	2.4	2.0k	20	1.0	20	58		MP211	Log Range 60dB;Acc 3.0%;BW 3.0MHz.
59	LGR6	2	32	224m	100k*			3.0m	55			Mod; Rng 100dB†; Tc .30%/deg.C†.
60	236	2	50	1.0	10k*	500mΔ	1.0	10	05			Log Range 160db;Acc 3.0%;BW 30Hz;Tc .10%/°C.
61	254A	2	50	1.5	10G	1.0	1.0	1.0	05			Log Range 60dB;Acc 3.0%;BW 100kHz;Tc .01%/°C.
62	2277	2	115	690m	100k†	100	10 †	6.0 †	15		MP⍁	Dynamic Range 120db;Error ±2.0%Δ;Freq. 200k.
63	519A	3	15	450m	10k	20	100	10	27			Acc 1.0%†;FP BW 10MHz†;ΔIo 10mA;Tc .05%/°C†.
64	519	3	25 §	750m	10k†	101 §	100	20 §	05		MP⍁	Acc. 1.0%†;Tc 100m%/°C;BW 10MHz.
65	5759	3	30	90m	100k	20	1.0	20	57		MP⍁	Acc. 1.0%†;BW 10kHz;ΔIo 30mA.
66	107#1	3	30	210m	10k			20	27		MP150	Acc. 1% FS;3dB BW 400kHz;Io 10mA.
67	M420	3	30	210m†	15k†	20	1.0	20	28		MP⍁	Acc 1.0%;Tc 5.0mV/°C;BW 3db 400kHz;ΔIo 5.0mA.
68	5485	3	30	240m	100k	20	1.0	20	57			Acc 1.0%†;FP BW 15kHz†;ΔIo 20mA;Tc .10%/°C†.
69	105	3	30	300m	5.0k†	20 †	15 †	20 †	06		MP103	Acc. 2.0% max;BW 10MHz;SR 250V/us.
70	5507	3	30	300m	4.0k	10m	100k†		5C	Z028	CN20	Acc .80%†;FP BW 5.0MHz†;ΔIo 6.0mA;Tc .05%/°C†.
71	M415	3	30	300m†	27k†	20	1.0	20	28		MP204	Acc 1.0%;Tc 2.0mV/°C;BW 3db 750kHz;ΔIo 5.0mA.
72	M415M	3	30	300m†	27k†	20	1.0	20	5C		MP204	Acc 1.0%;Tc 2.0mV/°C;BW 3db 750kHz;ΔIo 5.0mA.
73	M416	3	30	300m†	27k†	20	1.0	20	28		MP204	Acc .50%;Tc 1.0mV/°C;BW 3db 750kHz;ΔIo 5.0mA.
74	M416M	3	30	300m†	27k†	20	1.0	20	5C		MP204	Acc .50%;Tc 1.0mV/°C;BW 3db 750kHz;ΔIo 5.0mA.
75	M425	3	30	300m†	27k†	20	1.0	20	28		MP⍁	Acc 1.0%;Tc 2.0mV/°C;BW 3db 500kHz;ΔIo 5.0mA.
76	M410	3	30	330m†	15k†	20	1.0	20	28		MP5bd	Acc 1.0%;Tc 2.0mV/°C;BW 3db 600kHz;ΔIo 5.0mA.
77	M410M	3	30	330m†	15k†	20	1.0	20	5C		MP5bd	Acc 1.0%;Tc 2.0mV/°C;BW 3db 600kHz;ΔIo 5.0mA.
78	605⍁	3	30	360m	33k	20	1.0	20	28		MP6	4 Quad;1% Acc;Vi X and Y ±10V;FP BW 100kHz.
79	5323A	3	30	360m	100k	20	1.0	20	28			Acc .10%†;FP BW 1.0kHz†;ΔIo 15mA;Tc .01%/°C.
80	5391	3	30	360m	10k†	50	1.0 †		57		MP⍁	Multiplier-Divider;BW300kHz.
81	M401	3	30	360m	10k†	20	1.0	20	28		MP⍁	Acc Adj; Tc 2.0mV/deg.C; 1% BW 20kHz; ΔIo 10mA.
82	ZM605M20	3	30	360m†	50k	20	1.0	20	28		MP138	Four Quadrant;Acc 1.0%;BW 3dB;tracking ±1.0%.
83	5627	3	30	450m	100k†	50	1.0 †		57		MP⍁	Multiplier-Divider;BW 100kHz.
84	M505	3	30	510m†	10k†	20	100m	20	28		MP5be	Acc 1.0%;Tc 1.0mV/°C;BW 3db 5.0MHz;ΔIo 10mA.
85	M505M	3	30	510m†	10k†	20	100m	20	5C		MP5be	Acc 1.0%;Tc 1.0mV/°C;BW 3db 5.0MHz;ΔIo 10mA.
86	M506	3	30	510m†	10k†	20	100m	20	28		MP5be	Acc .50%;Tc .50mV/°C;BW 3db 5.0MHz;ΔIo 10mA.
87	M506M	3	30	510m†	10k†	20	100m	20	5C		MP5be	Acc .50%;Tc .50mV/°C;BW 3db 5.0MHz;ΔIo 10mA.
88	5229A	3	30	600m	10k†	20	100	20	05		MP⍁	Acc. 3.0%†;Tc 100m%/°C;BW 100kHz.
89	5229C	3	30	600m	10k	20	1.0	20	05			Acc 1.0%†;FP BW 100kHz†;ΔIo 15mA;Tc .05%/°C†.
90	M310	3	30	600m†	1.0M†	20	500m	20	28		MP⍁	Acc .10%;Tc .10mV/°C;BW 3db 1.0kHz;ΔIo 5.0mA.
91	M310M	3	30	600m†	1.0M†	20	500m	20	5C		MP⍁	Acc .10%;Tc .10mV/°C;BW 3db 1.0kHz;ΔIo 5.0mA.
92	M311	3	30	600m†	1.0M†	20	500m	20	28		MP⍁	Acc .05%;Tc .05mV/°C;BW 3db 1.0kHz;ΔIo 5.0mA.
93	M311M	3	30	600m†	1.0M†	20	500m	20	5C		MP⍁	Acc .05%;Tc .05mV/°C;BW 3db 1.0kHz;ΔIo 5.0mA.
94	M510	3	30	600m†	10k†		1.0	20 †	28		MP118	Acc. 1.0%Δ;Tc 1.0mV/°CΔ;BW 10MHz†;Io 10mA*.
95	M601	3	30	600m†	10k†	20	1.0	20	28		MP5be	Acc 1.0%;Tc 1.0mV/°C;BW 3db 1MHz;ΔIo 5.0mA.
96	M601M	3	30	600m†	10k†	20	1.0	20	5C		MP5be	Acc 1.0%;Tc 1.0mV/°C;BW 3db 1MHz;ΔIo 5.0mA.
97	M602	3	30	600m†	10k†	20	1.0	20	28		MP5be	Acc .50%;Tc .50mV/°C;BW 3db 1MHz;ΔIo 5.0mA.
98	M602M	3	30	600m†	10k†	20	1.0	20	5C		MP5be	Acc .50%;Tc .50mV/°C;BW 3db 1MHz;ΔIo 5.0mA.
99	M501	3	30	750m†	10k†	20	1.0	20	28		MP205	Acc 1.0%;Tc 1.0mV/°C;BW 3db 3.0MHz†;ΔIo 5.0mA.
100	M501M	3	30	750m†	10k†	20	1.0	20	5C		MP205	Acc 1.0%;Tc 1.0mV/°C;BW 3db 3.0MHz†;ΔIo 5.0mA.
101	M502	3	30	750m†	10k†	20	1.0	20	28		MP205	Acc .50%;Tc 1.0mV/°C;BW 3db 3.0MHz†;ΔIo 5.0mA.
102	M502M	3	30	750m†	10k†	20	1.0	20	5C		MP205	Acc .50%;Tc 1.0mV/°C;BW 3db 3.0MHz†;ΔIo 5.0mA.
103	350CP4	3	30	900m	100k	20	500	20	07		MP70	Acc .50%†;Tc .50mV/°CΔ;BW DC;ΔIo 2.0mAΔ.
104	350MP4	3	30	900m	100k	20	500	20	58		MP70	Acc .50%†;Tc .50mV/°CΔ;BW DC;ΔIo 2.0mAΔ.
105	350RP2	3	30	900m	100k	20	500	20	28		MP69	Acc .50%†;Tc .50mV/°CΔ;BW DC;ΔIo 2.0mAΔ.
106	M301	3	30	900m†	10k†	20	1.0	20	28		MP205	Acc .50%;Tc .10mV/°C;BW 3db 1.0kHz;ΔIo 5.0mA.
107	M301M	3	30	900m	10k†	20	1.0	20	5C		MP205	ACC .50%;TC .10mV/°C;BW3db 1.0kHZ;ΔIo5.0mA.
108	M302	3	30	900m†	10k†	20	1.0	20	28		MP205	Acc .25%;Tc .10mV/°C;BW 3db 1.0kHz;ΔIo 5.0mA.
109	M302M	3	30	900m	10k†	20	1.0	20	5C		MP205	Acc .25%;Tc .10mV/°C;BW 3db 1.0kHz;ΔIo 5.0mA.
110	M303	3	30	900m†	10k†	20	1.0	20	28		MP205	Acc .10%;Tc .10mV/°C;BW 3db 1.0kHz;ΔIo 5.0mA.

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

10. MISCELLANEOUS

IN ORDER OF (1) USE (2) TOTAL VOLTAGE (3) MAX IDLE POWER & (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	PWR SUP @25°C RATED SPECS		MIN. INPUT CHAR. @25°C		OUTPUT CHAR. @25°C		TEMP CODE	DRAWINGS		GENERAL DESCRIPTION
			2 TOT. VOLT. (ΔV)	3 MAX. IDLE P (W)	IMPEDANCE (Ω)	VOLT RANGE (ΔV)	MAX. IMP. (Ω)	MIN VOLT RANGE (ΔV)	-+	CKT.	OUTLINE Δ=MO	
1	M303M	3	30	900m	10k†	20	1.0	20	5C		MP205	Acc .10%;Tc .10mV/°C;BW 3db 1.0kHz;ΔIo 5.0mA.
2	5805	3	30	1.0	10k	20	1.0k	20	56		MPØ	Acc. 1.0%†;BW 3.0MHz;Tc 100m%/°C.
3	5822	3	30	1.0 †	4.0k	50	1.0k†	20	56		MPØ	Acc. 1.0%;BW 30MHz; Tc 100m%/°CΔ.
4	102#1	3	30	1.2	60k	20 †			28		MP5av	Acc. ±.20% max;BW 100Hz;Output XY/10;ΔIo 20mA.
5	104#1	3	30	1.2	60k	20 †			28		MP5av	Acc. ±.10% max;BW 100Hz;Output XY/10;ΔIo 20mA.
6	4031-25	3	30	1.2	25k	20 †	1.0 †	20 †	26		MP2h	Acc .5%Δ;Dr 1.0mV/CΔ#;1% BW 3.0kHz#;ΔIo 10mA†.
7	5109A	3	30	1.2	10k†	20	100	20	55		MPØ	Acc. 1.0%†;Tc 100m%/°C;BW 3.0MHz.
8	5109C	3	30	1.2	10k	20	100	20	26			Acc 1.0%†;FP BW 5.0MHz†;ΔIo 10mA;Tc .10%/°C.
9	5600	3	30	1.3	9.0k	18	15	15	25			Acc 2.0%;FP BW 300kHz;ΔIo 8.0mA;Tc .10%/°C.
10	380CP4	3	30	1.5	10k	20	5.0	20	07		MP70	Acc .50%;Tc 2.5mV/°CΔ;BW 10kHzΔ;ΔIo 2.0mAΔ.
11	380CP5	3	30	1.5	10k	20	5.0	20	07		MP69a	Acc .50%;Tc 2.5mV/°CΔ;BW 10kHzΔ;ΔIo 2.0mAΔ.
12	380MP4	3	30	1.5	10k	20	5.0	20	58		MP70	Acc .50%;Tc 2.5mV/°CΔ;BW 10kHzΔ;ΔIo 2.0mAΔ.
13	9380CP4	3	30	1.5	10k	20	5.0	20	07		MP70	Acc .50%;Tc 2.5mV/°CΔ;BW 30kHzΔ;ΔIo 2.0mAΔ.
14	9380CP5	3	30	1.5	10k	20	50	20	07		MP69a	Acc .50%; Tc 2.5mV/deg.CΔ; BW 30kHzΔ; ΔIo 2.0mAΔ.
15	9380MP4	3	30	1.5	10k	20	50	20	58		MP70	Acc .50%; Tc 2.5mV/deg.CΔ; BW 30kHzΔ; ΔIo 2.0mAΔ.
16	4012-25	3	30	1.7	2.0k	20 †	5.0 †	20 †	28		MP2g	Acc .25%Δ; Dr .50mV/°CΔ#; 1% BW 40kHz#; ΔIo 20mA†.
17	4029-25	3	30	1.7	2.0k	20 †	5.0 †	20 †	28		MP2g	Acc .5%Δ; Dr 1.0mV/°CΔ#; 1% BW 5.0kHz#; ΔIo 10mA†.
18	4030-25	3	30	1.7	2.0k	20 †	5.0 †	20 †	28		MP2g	Acc.25%Δ; Dr .50mV/°CΔ#; 1% BW 10kHz#; ΔIo 10mA†.
19	4112-25	3	30	1.7	2.0k	20 †	5.0 †	20 †	28		MP2g	Acc .5%Δ; Dr 1.0mV/°CΔ#; 1% BW 30kHz#; ΔIo 20mA†.
20	384CP5	3	30	3.3	10k	20	50	2.0	07		MP69a	Acc .20%†; Tc .50mV/deg.CΔ; BW 4MHzΔ; ΔIo 2.0mAΔ.
21	5500	3	40	500m	3.0k	100m	20k	10	5C	Z002	CNØ	BW 7.0MHz.
22	GEL1495	3	47 §	170m	20M†	30 Δ	300k†	28 †	07	Z045	TO116	Acc. 4.0%Δ;BW 3dB 3.0MHz†;Com. Mode GV 50dB†.
23	GEL1595	3	47 §	170m	35M†	30 Δ	300k†	28 †	5C	Z045	TO116	Acc. 2.0%Δ;BW 3dB 3.0MHz†;Com. Mode GV 60dB†.
24	SG1495D	3	47 §	170m	20M†	30 Δ	300k†	28 †	07	Z045	TO116	Acc 4.0%Δ:BW3dB3.0MHz†;Com Mode GV-50dB†.
25	VA6A159531	3	47	170m	35M†	30 Δ	300k†	28 †	5C	Z045	TO116	Acc. 2.0%Δ;BW 3dB 3.0MHz†;Com.Mode Gv -60dB†.
26	VA6A159539	3	47	170m	20M†	30 Δ	300k†	28 †	07	Z045	TO116	Acc. 4.0%Δ;BW 3dB 3.0MHz†;Com.Mode Gv -50dB†.
27	9874-19	4	30	90m	5.0k		1.0 *	20	06		MP16a	Acc .10%Δ; Tc .025%/CΔ; 1% BW 100kHz.
28	9875-19	4	30	90m	5.0k		1.0 *	20	06		MP16a	Acc .10%Δ; Tc .025%/CΔ; 1% BW 100kHz.
29	512	4	30	450m	10k	100m	1.0k	1.0m	05		MPØ	Acc 1.0%Δ; BW 1.0kHzΔ.
30	513	4	30	450m	10k	100m	1.0k	1.0m	05		MPØ	Acc 1.0%Δ; BW 1.0kHzΔ.
31	9648-19	4	30	510m	5.0k	10	400 *§	10 §	28		MP16	Acc .25%Δ; Tc .015%/°CΔ; 1% BW 10kHz.
32	9671-19	4	30	510m	5.0k	10-	400 *§	10-	28		MP16	Acc .25%Δ;Tc 15m%/°CΔ;1% BW 10kHz.
33	5217A	5	30	75m	15k†	20 †	1.0 †	20	27		MPØ	SinX function;Function Error ± 3.0%Δ.
34	5249A	5	30	150m	10k†	20	1.0 †	20	27		MPØ	Universal Non-Linear;(x/10) to y power function.
35	VM101	5	30	150m†	1.0M†	20	100m		28		MP5be	Acc 1.0% F.S.;BW 3db 1.0MHz;ΔIo 5.0mA.
36	R101	5	30	300m†	250k†	20	1.0	10 §	28		MP179a	Vo(DC) equal to V1(RMS);BW 3db 1.0MHz;ΔIo 5.0mA.
37	R101M	5	30	300m†	250k†	20	1.0	10 §	5C		MP179a	Vo(DC) equal to V1(RMS);BW 3db 1.0MHz;ΔIo 5.0mA.
38	512-513	5	30	450m	10M†	10 †	1.0 †	20 †	05		MPØ	x square function;Dynamic error 3.0%F.S.
39	5249-5250	5	30	750m	10k†	10 †	1.0k†	20 †	05		MPØ	x toy power function;Dynamic error 3.0%F.S.
40	4062-45	5	30	1.2	10k†	10 †	5.0 †	20 †	28		CB8	Seg.11; S1 Rng 4.0V/V†; No 5.0mVΔ; I% BW 1.0kHz†.
41	C101	5	30	2.1	6.5k†	9.0	150	10	28		MP206a	Pin cushion correction;BW 3db 1.0MHz;Acc .10%.
42	C100	5	30	6.0	670 †	9.0	50	10	28		MP206	Pin cushion correction;BW 3db 20MHz;Acc .20%.
43	521-522	5	50	250m	10k†	10 †	100k†	20 †	05		MPØ	SinX function;Dynamic error 3.0%F.S.
44	523-524	5	50	250m	5.0k†	10 †	100k†	20 †	05		MPØ	Square root x function;Dynamic error 3.0%F.S.
45	5217	6	30	300m	10k	20	100	2.0	05			Acc 3.0%;BW 3dB 100kHz;Tc .10% FS/°C.
46	5748	6	30	540m	2.5k†	20 †	1.0 †	20	27		MPØ	Circle generator;sinX and cosX function.
47	5198	6	30	750m	10k†	10 †	1.0 †		05		MPØ	SinX function;Dynamic error 3.0%F.S.
48	5223	6	30	750m	10k†	10 †	1.0 †		05		MPØ	CosX function;Dynamic error 3.0%F.S.
49	SG101	6	30 ♦	1.5 †	20k†	20	1.0	20	28		MPØ	Acc .50%;Tc .03%°C;BW 3db 200Hz;ΔIo 5.0mA.
50	SG101M	6	30 ♦	1.5 †	20k†	20	1.0	20	5C		MPØ	Acc .50%;Tc .03%°C;BW 3db 200Hz;ΔIo 5.0mA.
51	4018-25	6	30	1.8	10k†	20 †	2.0 †	20 †	48		MP2g	Acc .10%†; .1% BW 500 Hz†; ΔIo 10mA†.
52	4118/25	6	32	320m	26k†	20 †	500m†	20 †	28		MP2e	Acc 1.0%;1% BW 1.0kHz*;ΔIo 10mA*.
53	CO201-5	7	6.0 §	2.0			500 Ø	2.8	06		MPØ	Tc 30n/°CΔ#; freq 1.0MHz or 5.0 MHz; Dr 10n/day Δ.
54	CO202-5	7	6.0 §	2.0			500 Ø	2.8	06		MPØ	Tc 30n/CΔ#; freq 1.0MHz or 5.0 MHz; Dr 5n/day Δ.
55	CO203-5	7	6.0 §	2.0			500 Ø	2.8	06		MPØ	Tc 20n/CΔ#; freq 1.0MHz or 5.0 MHz; Dr 3n/day Δ.
56	CO204-5	7	6.0 §	2.0			500 Ø	2.8	06		MPØ	Tc 20n/CΔ#; freq 1.0MHz or 5.0 MHz; Dr 1n/day Δ.
57	CO251	7	12 §	60m			1.0kØ	2.8	05		MPØ	Tc 100u/°CΔ#; freq rng 3.0-10MHz; Dr 1u/moΔ.
58	CO251-1	7	12 §	60m			1.0kØ	2.8	05		MPØ	Tc 100u/°CΔ#; freq rng 3.0-10MHz; Dr 1u/yearΔ.
59	CO233	7	24 §				50 Ø	1.4	07		MPØ	Acc.001%; freq rng 25-125MHz; Dr .001%/year Δ.
60	CO201	7	24 §	2.0			50 Ø	2.8	27		MPØ	Tc 100p/°CΔ#; freq 1.0MHz or 5.0 MHz; Dr 10n/dayΔ.
61	CO202	7	24 §	2.0			50 Ø	2.8	27		MPØ	Tc 100p/°CΔ#; freq 1.0MHz or 5.0 MHz; Dr 5n/dayΔ.
62	CO203	7	24 §	2.0			50 Ø	2.8	27		MPØ	Tc 100p/°CΔ#; freq 1.0MHz or 5.0 MHz; Dr 3n/dayΔ.
63	CO204	7	24 §	2.0			50 Ø	2.8	27		MPØ	Tc 100p/°CΔ#; freq 1.0MHz or 5.0 MHz; Dr 1n/dayΔ.
64	CO211	7	24 §	2.4			500 Ø	2.8	05		MPØ	Tc 500p/°CΔ#; freq 1.0 MHz or 5.0 MHz; Dr 10u/dayΔ
65	CO212	7	24 §	2.4			500 Ø	2.8	05		MPØ	Tc 500p/°CΔ#; freq 1.0 MHz or 5.0 MHz; Dr 50n/dayΔ
66	CO213	7	24 §	2.4			500 Ø	2.8	05		MPØ	Tc 500p/°CΔ#; freq 1.0 MHz or 5.0 MHz; Dr 30n/dayΔ
67	CO214	7	24 §	2.4			500 Ø	2.8	05		MPØ	Tc 500p/°CΔ#; freq 1.0 MHz or 5.0 MHz; Dr 10n/dayΔ
68	CO215	7	24 §	2.4			500 Ø	2.8	05		MPØ	Tc 500p/°CΔ#; freq 1.0 MHz or 5.0 MHz; Dr 5n/dayΔ.
69	CO216	7	24 §	2.4			500 Ø	2.8	05		MPØ	Tc 500p/°CΔ#; freq 1.0 MHz or 5.0 MHz; Dr 3n/dayΔ.
70	CO217	7	24 §	2.4			500 Ø	2.8	05		MPØ	Tc 500p/CΔ#; freq 1.0 MHz or 5.0 MHz; Dr 1n/dayΔ.
71	TF120	7	28 §	224m†			600	2.8	58		MP64	Acc .01%Δ; Dist 3.0%†;Freq 240-1.2 kHz;RL 600 ohms
72	5120A	8	30	150m	1.0k†	50	1.0 †		08		MPØ	Maxium Static Error ± 1.0%FS.
73	107#2	8	30	210m	10k			20	27		MP150	Acc. 1% FS;3dB BW 400kHz;Io 10mA.
74	102#2	8	30	1.2	60k	20 †			28		MP5av	Acc. 20mV max;BW 100Hz;ΔIo 20mA.
75	104#2	8	30	1.2	60k	20 †			28		MP5av	Acc. 10mV;max;BW 100Hz;ΔIo 20mA.
76	5191B	8	30	1.2	10k†	50	10 †		06		MPØ	Wide Band Divider;Static Error ± 1.0FSΔ.
77	5196A	8	30	1.2	10k†	30	10 †		05		MPØ	4 Quadrant Divider;Static Error ± 1.0FSΔ.
78	A701#2	8	32	576m	500k	10		20	06		MP138a	Multiplier-Divider;BW 4.0MHz min.
79	A702#2	8	32	576m	500k	10		20	06		MP138a	Multiplier-Divider;BW 4.0MHz min.
80	5337	9	16	192m	10k	300m	10 †	0.0	27		MPØ	Transducer;Linearity±.30%F.S;Freq. 100kHZΔ.
81	5182	9	30	750m	10k†	1.0 †	10 †	0.0	25		MPØ	Transducer;Freq.Range 1.0k-10kHz.
82	5183	9	30	750m	10k†	1.0 †	10 †	0.0	25		MPØ	Transducer;Freq.Range 10k-100kHz.
83	5184	9	30	750m	10k†	1.0 †	10 †	0.0	25		MPØ	Transducer;Freq.Range 100k-1.0MHz.
84	547	9	40	1.4	10M†	100m†	1.0 †	0.0	05		MPØ	Transducer;Freq.Range 1-100kHz.
85	5658WB	10	25 §	250m	50k		50 Ø	560m	15		MPØ	Freq 20MHzΔØ; Δf 40kHzΔ; Sen 10kHz/V*; Acc 1.0%Δ.
86	1231WA	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 4.7MHz; Δf 20kHzΔ; Sen 2.0kHz/V; Acc 1.0%Δ.
87	5091WB	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 20MHz; Δf 40kHzΔ; Sen 2.0kHz/V; Acc 1.0%Δ.
88	5091WXA	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 39MHz; Δf 200kHzΔ; Sen 5.0kHz/V; Acc 1.0%Δ.
89	5099WA	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 12MHz; Δf20kHzΔ; Sen 1.0kHz/V; Acc 1.0%Δ.
90	5114WA	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 7.0MHz; Δf 20kHzΔ; Sen 2.0kHz/V; Acc 1.0%Δ.
91	5130WA	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 3.3MHz; Δf 10kHzΔ; Sen 2.0kHz/V; Acc 1.0%Δ.
92	5130WB	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 455kHz; Δf 10kHzΔ; Sen 2.0kHz/V; Acc 1.0%Δ.
93	5179WXA	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 99MHz; Δf 496kHzΔ; Sen 22.5kHz/V; Acc 1.0%Δ.
94	5209WA	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 11MHz; Δf 40kHzΔ; Sen 2.0kHz/V; Acc 1.0%Δ.
95	5209WB	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 2.3MHz; Δf 1.0kHzΔ; Sen 500Hz/V; Acc 1.0%Δ.
96	5228WA	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 1.0MHz; Δf 4.0kHzΔ; Sen 400Hz/V; Acc 1.0%Δ.
97	5244WA	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 28MHz; Δf 3.0kHzΔ; Sen 200Hz/V; Acc 1.0%Δ.
98	5256WXA	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 68MHz; Δf 400kHzΔ; Sen 20kHz/V; Acc 1.0%Δ.
99	5265WA	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 17MHz; Δf 9.0kHzΔ; Sen 1.0kHz/V; Acc 1.0%Δ.
100	5270WA	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 19MHz; Δf 25kHzΔ; Sen 2.5kHz/V; Acc 1.0%Δ.
101	5280WA	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 500kHz; Δf 2.5kHzΔ; Sen 250Hz/V; Acc 1.0%Δ.
102	5285WA	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 346kHz; Δf 7.6kHzΔ; Sen 2.0kHz/V; Acc 1.0%Δ.
103	5312WXA	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 78MHz; Δf 110kHzΔ; Sen 10kHz/V; Acc 1.0%Δ.
104	5359WA	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 24MHz; Δf 60kHzΔ; Sen 6.0 kHz/V; Acc 1.0%Δ.
105	5395WYA	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 960kHz; Δf 1.0kHzΔ; Sen 100Hz/V; Acc 1.0%Δ.
106	5461WC	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 35MHz; Δf 30kHzΔ; Sen 11kHz/V; Acc 1.0%Δ.
107	5469WA	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 500kHz; Δf 400HzΔ; Sen 100Hz/V; Acc 1.0%Δ.
108	5472WA	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 13MHz; Δf 50kHzΔ; Sen 6.0kHz/V; Acc 1.0%Δ.
109	5515WXA	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 100MHz; Δf 416kHzΔ; Sen 40kHz/V; Acc 1.0%Δ.
110	5520WA	10	25 §	750m	50k	10 †	10kØ	420m	06		MPØ	Freq 17MHz; Δf 60kHzΔ; Sen 6.0 kHz/V; Acc 1.0%Δ.

10. MISCELLANEOUS

IN ORDER OF (1) USE (2) TOTAL VOLTAGE
(3) MAX IDLE POWER & (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	PWR SUP @25°C RATED SPECS		MIN. INPUT CHAR. @25°C		OUTPUT CHAR. @25°C		TEMP CODE	DRAWINGS		GENERAL DESCRIPTION
			2 TOT. VOLT. (ΔV)	3 MAX. IDLE P (W)	IMPEDANCE (Ω)	VOLT RANGE (ΔV)	MAX. IMP. (Ω)	MIN VOLT RANGE (ΔV)	-+	CKT.	OUTLINE Δ=MO	
1	5524WA	10	25 §	750m	50k	10 †	10kØ	420m	06		MP⧄	Freq 10MHz; Δf 12kHzΔ; Sen 1.2kHz/V; Acc 1.0%Δ.
2	5533WXA	10	25 §	750m	50k	10 †	10kØ	420m	06		MP⧄	Freq 100MHz; Δf 200kHzΔ; Sen 14kHz/V; Acc 1.0%Δ.
3	5548WXA	10	25 §	750m	50k	10 †	10kØ	420m	06		MP⧄	Freq 60MHz; Δf 144kHzΔ; Sen 15kHz/V; Acc 1.0%Δ.
4	5559WA	10	25 §	750m	50k	10 †	10kØ	420m	06		MP⧄	Freq 7.0MHz; Δf 400HzΔ; Sen 40Hz/V; Acc 1.0%Δ.
5	5607WB	10	25 §	750m	50k	10 †	10kØ	420m	06		MP⧄	Freq 2.5MHz; Δf 600HzΔ; Sen 75Hz/V; Acc 1.0%Δ.
6	5616WB	10	25 §	750m	50k	10 †	10kØ	420m	06		MP⧄	Freq 6.8MHz; Δf 200HzΔ; Sen 20Hz/V; Acc 1.0%Δ.
7	5676WB	10	25 §	750m	50k	10 †	10kØ	420m	06		MP⧄	Freq 133kHz; Δf 500HzΔ; Sen 50Hz/V; Acc 1.0%Δ.
8	5245	11	30	750m	5.0k†	0.0	100 †	1.0 †	25		MP⧄	Transducer;Freq.Range 10k-100kHz.
9	5213	11	30	1.2	1.0M†	0.0	100 †	1.0 †	05		MP⧄	Voltage to Period Transducer;Linearity ± .30%F.S.
10	5214	11	30	1.2	1.0M†	0.0	100 †	1.0 †	05		MP⧄	Voltage to Period Transducer;Linearity ± .30%F.S.
11	5215	11	30	1.2	1.0M†	0.0	100 †	1.0 †	05		MP⧄	Voltage to Period Transducer;Linearity ± .30%F.S.
12	5216	11	30	1.2	1.0M†	0.0	100 †	1.0 †	05		MP⧄	Voltage to Period Transducer;Linearity ± .30%F.S.
13	5174	11	30	1.5	1.0M†	0.0	100 †	1.0 †	25		MP⧄	Transducer;Freq.Range 1.0k-10kHz.
14	5175	11	30	1.8	1.0M†	0.0	100 †	1.0 †	25		MP⧄	Transducer;Freq.Range 10k-100kHz.
15	5176	11	30	1.8	1.0M†	0.0	100 †	1.0 †	25		MP⧄	Transducer;Freq.Range 100k-1.0MHz.
16	VA5R159639	59							07	Z052	CN10b	Balanced Modulator-Demodulator.
17	VA5R159631	59	20 §	33m†	200k†	5.0	40k†	8.0	5C	Z052	CN10b	Balanced Mod.-DeMod. ΔVs 20§;Pd 33mW†;Vo 8.0V†.

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) TYPE No.

LINE No.	2 TYPE No.	1 USE	TEMP CODE -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO	GENERAL DESCRIPTION
1	501	50	28		MP⍁	ΔVi 322V†;ΔVo±15V†;Io±120mA†;No 1.0mVΔ;freq 47-420Hz;Tc .005%/C†;Reg .1%Δ.
2	505	50	28		MP⍁	ΔVi 322V†;ΔVo±26V†;ΔIo±60mA†;No 1.0mVΔ;freq 47-420Hz;Tc .005%/C†;Reg .1%Δ.
3	516⍁	50	27		MP⍁	Vi-115VRMS;Vo-±15V†;ΔIo-50mA†;No-2.0mVΔ;freq-60-420Hz;Tc-.02%/C†;Reg.-.10%Δ.
4	521	50	28		MP⍁	ΔVi 644V†;ΔVo±15V†;ΔIo±120mA†;No 1.0mVΔ;freq 47-420Hz;Tc .005%/C†;Reg .1%Δ.
5	765	50			MP122	Vi 110VAC;Vo 14VDC;Io 100mA;Reg. 50mV;Rpl 50mV.
6	766	50				Vi 110,Vo ± 14V;Io 200mA;Reg. .20%;Ripple 50mV.
7	855	50			MP⍁	ΔVi 610V;ΔVo±7.5V adj;ΔIo±.05A†;freq 50-420Hz;Line and Load Reg .025%.
8	856⍁	50			MP⍁	Δ Vi 610V; ΔVo ±7.5V adj; ΔIo 500mA†; freq 50-420Hz; Line and Load Reg.025%.
9	857	50			MP⍁	ΔVi 610V;ΔVo±12.5V adj;ΔIo±.05A†;freq 50-420Hz;Line and Load Reg .025%.
10	859⍁	50			MP⍁	Δ vi 610V; ΔVo 5.0V adj; ΔIo 500mA†; freq 50-420Hz; Line and Load Reg.025%.
11	869	50			MP⍁	ΔVi 610V;ΔVo±7.5V adj;ΔIo±.15A†;freq 50-60Hz;Line and Load Reg 1%.
12	870	50			MP⍁	ΔVi 610V;ΔVo±12.5V adj;ΔIo±.05A†;freq 50-60Hz;Line and Load Reg 1%.
13	871	50			MP⍁	ΔVi 610V;ΔVo±12.5V adj;ΔIo±.15A†;freq 50-60Hz;Line and Load Reg 1%.
14	872	50			MP⍁	ΔVi 610V;ΔVo±3.0V adj;ΔIo±.05A†;freq 50-60Hz;Line and Load Reg 1%.
15	873	50			MP⍁	ΔVi 610V;ΔVo±3.0V adj;ΔIo±.15A†;freq 50-60Hz;Line and Load Reg 1%.
16	885	50	28		MP⍁	Vi 115V;Vo 6.0V;Io 200mA;Line and Load Reg .05%.
17	887	50	28		MP⍁	Vi 115V;Vo 15V;Io 100mA;Line and Load Reg .02%.
18	888	50	28		MP⍁	Vi 115V;Vo 24V;Io 50mA;Line and Load Reg .02%.
19	901%	50	07		MP81b	Vi 115VAC†;Vo±15V at 40mA†;TC 30m%/°CΔ;Reg. line 100m%Δ, load 200m%Δ.
20	901E	50	07		MP81b	Vi 220VAC†;Vo±15V at 40mA†;TC 30m%/°CΔ;Reg. line 100m%Δ, load 200m%Δ.
21	MPD5-150	50	28			VI-115VAC;VO-5.0Vadj, IO-600mA;VO-150V,IO-5.0mA;Regulation Line-.005% and Load-.0025%.
22	MPD15-300	50	28			VI-115VAC;VO-±15Vadj;IO-300mA;Regulation Line-.005% and Load-.02%.
23	NPS30A	50	07		MP10	ΔVi 48V†;ΔVo±15V†;ΔIo±30mA†;Tc 1.0mV/deg CΔ.
24	PM430	50	28		MP97	Vi-115V†;Vo-9.0V;Io-135mA;Freq-60 to 400Hz;Tc-50m%/°C;Load and Line Reg-.02%
25	PM438	50	28		MP97	Vi 115V†;Vo 170V;Io 10mA;Freq 60 to 400Hz;Tc 50m%/°C;Line and Load Reg .05%.
26	PM439	50	28		MP97	Vi 115V†;Vo 180V;Io 10mA;Freq 60 to 400Hz;Tc 50m%/°C;Line and Load Reg .05%.
27	PM456	50	28		MP97	Vi-115V†;Vo-22V;Io-55mA;Freq-60 to 400Hz;Tc 20m%/°C;Line and Load Reg-.020%
28	PM529	50	28		MP94	Vi-115V†;Vo-5.0V;Io-250mA;Freq-60 to 400Hz;Tc-50m%/°C;Load and Line Reg-.050%
29	PM530	50	28		MP93	Vi-115V†;Vo-9.0V;Io-135mA;Freq-60 to 400Hz;Tc-50m%/°C;Load and Line Reg-.02%
30	PM538	50	28		MP94	Vi 115V†;Vo 170V;Io 10mA;Freq 60 to 400Hz;Tc 50m%/°C;Line and Load Reg .05%.
31	PM539	50	28		MP94	Vi 115V†;Vo 180V;Io 10mA;Freq 60 to 400Hz;Tc 50m%/°C;Line and Load Reg .05%.
32	PM556	50	28		MP93	Vi 115V†;Vo 22V;Io 55mA;Freq 60 to 400Hz;Tc 20m%/°C;Line and Load Reg .020%.
33	PM630	50	28		MP96	Vi-115V†;Vo-9.0V;Io-135mA;Freq-60 to 400Hz;Tc-50m%/°C;Line and Load Reg-.020%
34	PM638	50	28		MP96	Vi 115V†;Vo 170V;Io 10mA;Freq 60 to 400Hz;Tc 50m%/°C;Line and Load Reg .05%.
35	PM639	50	28		MP96	Vi 115V†;Vo 180V;Io 10mA;Freq 60 to 400Hz;Tc 50m%/°C;Line and Load Reg .05%.
36	PM656	50	28		MP9	Vi 115V†;Vo 22V;Io 55mA;Freq 60 to 400Hz;Tc 20m%/°C;Line and Load Reg .020%.
37	PS21	50	28		MP6b	ΔVi 168V†;ΔVo±15V†;ΔIo±15mA†;Reg 1.0%†.
38	PS22	50	28		MP6b	ΔVi 168V†;ΔVo±15V†;ΔIo±30mA†;Reg 1.0%†.
39	R15§	50	28			Vin-22V.RMS 50-400Hz;Out.Volt 12-18VDC;TC-.02%/°C
40#	SI3052B	50		Z059	MP128	Max. Pd 50W;Nominal Vo 5.0V;Min. Ripple Rej. 40db;Max. load Reg. 800mA.
41	SM25-6	50	26		MP81b	Vi 125VACΔ;Vo ±6V;Io 25mA;Freq 50 to 440Hz;TC 20m%/°C;Line and Load Reg .05%.
42	SM25-12	50	26		MP81b	Vi 125VACΔ;Vo ±12V;Io 25mA;Freq 50 to 440Hz;TC 20m%/°C;Line and Load Reg .05%.
43	SM25-15	50	26		MP81b	Vi 125VACΔ;Vo ±15V;Io 25mA†;Freq 50 to 440Hz;TC 20m%/°C;Line and Load Reg .05%.
44	SM50-18	50	26		MP81b	Vi 125VACΔ;Vo ±18V;Io 50mA†;Freq 50 to 440Hz;TC 20m%/°C;Line and Load Reg .05%.
45	SM50-24	50	26		MP81b	Vi 125VACΔ;Vo ±24V;Io 50mA†;Freq 50 to 440Hz;TC 20m%/°C;Line and Load Reg .05%.
46	SM60-12	50	26		MP81b	Vi 125VACΔ;Vo ±12V;Io 60mA†;Freq 50 to 440Hz;TC 20m%/°C;Line and Load Reg .05%.
47	SM60-15	50	26		MP81b	Vi 125VACΔ;Vo ±15V;Io 60mA†;Freq 50 to 440Hz;TC 20m%/°C;Line and Load Reg .05%.
48	SM75-12	50	26		MP⍁	Pi 125VΔ;Vo 24;Io 75mA†;freq 50 to 440Hz;Tc 20m%/°CΔ;Line and Load Reg. 50m%.
49	SM75-15	50	26		MP⍁	Pi 125VΔ;Vo 30;Io 75mA†;freq 50 to 440Hz;Tc 20m%/°CΔ;Line and Load Reg. 50m%.
50	SM100-12	50	26		MP81b	Vi 125VACΔ;Vo ±12V;Io 100mA†;Freq 50 to 440Hz;TC 20m%/°C;Line and Load Reg .05%.
51	SM100-15	50	26		MP81b	Vi 125VACΔ;Vo ±15V;Io 100mA†;Freq 50 to 440Hz;TC 20m%/°C;Line and Load Reg .05%.
52	SM100-18	50	26		MP81a	Vi 125VACΔ;Vo ±18V;Io 100mA†;Freq 50 to 440Hz;TC 20m%/°C;Line and Load Reg .05%.
53	SM100-24	50	26		MP81a	Vi 125VACΔ;Vo ±24V;Io 100mA†;Freq 50 to 440Hz;TC 20m%/°C;Line and Load Reg .05%.
54	SM200-12	50	26		MP81a	Vi 125VACΔ;Vo ±12V;Io 200mA†;Freq 50 to 440Hz;TC 20m%/°C;Line and Load Reg .05%.
55	SM200-15	50	26		MP81a	Vi 125VACΔ;Vo ±15V;Io 200mA†;Freq 50 to 440Hz;TC 20m%/°C;Line and Load Reg .05%.
56	SM500-5	50	26		MP81b	Vi 125VACΔ;Vo 5.0V;Io 500mA†;Freq 50 to 440Hz;TC 20m%/°C;Line and Load Reg .05%.
57	SM1000-5	50	26		MP81	Vi 125VACΔ;Vo 5.0V;Io 1.0A†;Freq 50 to 440Hz;TC 20m%/°C;Line and Load Reg .05%.
58	Z5AT250SL	50	27		MP305	Vi 115VAC†;Vo 5V;Io 250mA;Load Reg. 1%†;Line Reg. 0.2%†;Rpl 2mVrms†.
59	Z5AT250SP	50	27		MP305	Vi 115VAC†;Vo 5V;Io 250mA;Load Reg. 0.05%Δ;Line Reg. 0.02%Δ;Rpl 1mVrms†.
60	Z5AT500SP	50	27		MP305	Vi 115VAC†;Vo 5V;Io 500mA;Load Reg. 0.1%Δ;Line Reg. 0.02%Δ;Rpl 1mVrms†.
61	Z5AT1000SP	50	27		MP305	Vi 115VAC†;Vo 5V;Io 1000mA;Load Reg. 0.1%Δ;Line Reg. 0.02%Δ;Rpl 2mVrms†.
62	Z5AZ250SL	50	27		MP306	Vi 115VAC†;Vo 5V;Io 250mA;Load Reg. 0.5%†;Line Reg. 0.5%†;Rpl 5mVrms†.
63	Z5AZ250SP	50	27		MP306	Vi 115VAC†;Vo 5V;Io 250mA;Load Reg. 0.02†;Line Reg. 0.02%†;Rpl 2mVrms†.
64	Z5BT1000SP	50	27		MP305	Vi 230VAC†;Vo 5V;Io 1000mA;Load Reg. 0.1%Δ;Line Reg. 0.02%Δ;Rpl 2mVrms†.
65	Z15AT100TL#2	50	27		MP305	Vi 115VAC†;Vo 5V;Io 300mA;Load Reg. 1%†;Line Reg. 0.2%†;Rpl 2mVrms†.
66	Z15AT100TP#2	50	27		MP305	Vi 115VAC†;Vo 5V;Io 300mA;Load Reg 0.1%Δ;Line Reg 0.02%Δ;Rpl 2mV rms†.
67	Z15BT100TL#1	50	27		MP305	Vi 230VAC†;Vo ±15V;Io 100mA;Load Reg. 0.2%†;Line Reg. 0.02%†;Rpl 2mVrms†.
68	Z15BT100TL#2	50	27		MP305	Vi 230VAC†;Vo 5V;Io 300mA;Load Reg. 0.2%†;Line Reg. 0.2%†;Rpl 2mVrms†.
69	Z15BT100TP#1	50	27		MP305	Vi 230VAC†;Vo ±15V;Io 100mA;Load Reg. 0.02%Δ;Line Reg. 0.02%Δ;Rpl 2mVrms†.
70	Z15BT100TP#2	50	27		MP305	Vi 230VAC†;Vo 5V;Io 300mA;Load Reg. 0.1%Δ;Line Reg. 0.02%Δ;Rpl 2mVrms†.
71	Z15BT200DP	50	27		MP305	Vi 230VAC†;Vo ±15V;Io 200mA;Load Reg. 0.02%Δ;Line Reg. 0.02%Δ;Rpl 2mVrms†.
72	Z15CT100TP#1	50	27		MP305	Vi 100-250VAC;Vo ±15V;Io 100mA;Load Reg. 0.02%Δ;Line Reg. 0.02%Δ;Rpl 2mVrms†.
73	Z15CT100TP#2	50	27		MP305	Vi 100-250VAC;Vo 5V;Io 300mA;Load Reg. 0.1%Δ;Line Reg. 0.02%Δ;Rpl 2mVrms†.
74	ZM1260	50	27		MP237	Vi 115VAC†;Vo±12V;Io 60mA;Line Reg .02%Δ;Load Reg .05%Δ;Rpl 400uV rms†.
75	ZM1525	50	27		MP237a	Vi 115VAC†;Vo±15V;Io 25mA;Line Reg .200%†;Load Reg .20%†;Rpl 1.0mV rms†.
76	ZM1550	50	27		MP237	Vi 115VAC†;Vo±15V;Io 50mA;Line Reg .02%Δ;Load Reg .05%Δ;Rpl 400uV rms†.
77	ZM1850	50	27		MP237	Vi 115VAC†;Vo±18V;Io 50mA;Line Reg .02%Δ;Load Reg .05%Δ;Rpl 400uV rms†.
78	ZM2450	50	27		MP237	Vi 115VAC†;Vo±24V;Io 50mA;Line Reg .02%Δ;Load Reg .05%Δ;Rpl 400uV rms†.
79	ZM3050	50	27		MP237	Vi 115VAC†;Vo±30V;Io 50mA;Line Reg .02%Δ;Load Reg .05%Δ;Rpl 400uV rms†.
80	ZM12100	50	27		MP237a	Vi 115VAC†;Vo±12V;Io 100mA;Line Reg .02%Δ;Load Reg .05%Δ;Rpl 400uV rms†.
81	ZM15100	50	27		MP237a	Vi 115VAC†;Vo±15V;Io 100mA;Line Reg .02%Δ;Load Reg .05%Δ;Rpl 400uV rms†.
82	ZP5250	50	27		MP240	Vi 115VAC†;Vo±5.0V;Io 250mA;Line Reg .05%†;Load Reg .10%†;Rpl 1.0mVrms†.
83	ZP5500	50	27		MP240	Vi 115VAC†;Vo±5.0V;Io 500mA;Line Reg .05%†;Load Reg .10%†;Rpl 1.0mVrms†.
84	ZP51000	50	27		MP240a	Vi 115VAC†;Vo±5.0V;Io 1.0A;Line Reg .05%†;Load Reg .10%†;Rpl 1.0mV rms†.
85	821⍁	51	05		MP⍁	Δ Vi 30V§Δ; Ii 35mA§†; ΔIo 10mAΔ; Ro 1.0Gohms†; Tc .10%/c†.
86	822⍁	51	05		MP⍁	Δ Vi 30V§Δ; Ii 35mA§†; ΔIo 10mAΔ; Ro 1.0Gohms†; Tc .10%/c†.
87	D4075	51		Z091	CB9	Vo±10kV; Io 20mAΔ;Load Reg 200uV;Line±300uV;TC±50uV°/C.
88	201-1	52				Vo 10kV;Io 50mA;Tc-±.001%°C†;ΔVs 30V;Supply Rej. ±.001%;Acc .01%.
89	201-2	52				Vo 10kV;Io 100mA;Tc-±.001%°C†;ΔVs 30V;Supply Rej. ±.001%;Acc .01%.
90	201-3	52				Vo 10kV;Io 150mA;Tc-±.001%°C†;ΔVs 30V;Supply Rej. ±.001%;Acc .01%.
91	202-1	52				Vo 10kV;Io 50mA;Tc-±.001%°C†;ΔVs 30V;Supply Rej. ±.001%;Acc .01%.
92	202-2	52				Vo 10kV;Io 100mA;Tc-±.001%°C†;ΔVs 30V;Supply Rej. ±.001%;Acc .01%.
93	202-3	52				Vo 10kV;Io 150mA;Tc-±.001%°C†;ΔVs 30V;Supply Rej. ±.001%;Acc .01%.
94	203-1	52				ΔVo 20kV;ΔIo 100mA;Tc-±.001%°C†;ΔVs 30V;Supply Rej. ±.001%;Acc .01%.
95	203-2	52				ΔVo 20kV;ΔIo 200mA;Tc-±.001%°C†;ΔVs 30V;Supply Rej. ±.001%;Acc .01%.
96	203-3	52				ΔVo 20kV;ΔIo 300mA;Tc-±.001%°C†;ΔVs 30V;Supply Rej. ±.001%;Acc .01%.
97	510/25	52	48		MP2m	Vi-28V;Vo±5V;Io-150mA;Line Reg-.10%;Load Reg-1.0%.
98	9570-100-117	52	37		MP⍁	Vo⍁2.0 to 800V;VoxIo 300mW;Temp Reg .01%/°C;Ii 35mA;Rpl .60%pp.
99	9646-101	52	28		MP108	Vi 24 to 32V;Vo ±14 to ±21V;Io ±120mA;Rpl 480mV p-pΔ;Reg 550mV;Ro 9.0Ω.
100	IC28-700C	52	6J		MP86	For Radiation detector;Vi-40V max;Vo-700V;Po-250mW max;Reg. .25%;Rpl-1% P-P
101	IC28-700F	52	6J		MP87	For Radiation detector;Vi-40V max;Vo-700V;Po-250mW max;Reg. .25%;Rpl-1% P-P
102	IC28-700J	52	6J		MP88	For Radiation detector;Vi-40V max;Vo-700V;Po-250mW max;Reg. .25%;Rpl-1% P-P
103	IC28-700R	52	6J		MP89	For Radiation detector;Vi-40V max;Vo-700V;Po-250mW max;Reg. .25%;Rpl-1% P-P
104	IC28BPC	52	6J		MP86	Vi-40V max;Vo⍁-5-50V;Po-250mW;Reg. .25% over input voltage range Rpl-1% P-P
105	IC28BPF	52	6J		MP87	Vi-40V max;Vo⍁-5-50V;Po-250mW;Reg. .25% over input voltage range Rpl-1% P-P
106	IC28BPJ	52	6J		MP88	Vi-40V max;Vo⍁-5-50V;Po-250mW;Reg. .25% over input voltage range Rpl-1% P-P
107	IC28BPR	52	6J		MP89	Vi-40V max;Vo⍁-5-50V;Po-250mW;Reg. .25% over input voltage range Rpl-1% P-P
108	IC1018C	52	6J		MP86	Vi-18V max;Vo⍁-5-500V;Po-250mW max;Reg. .25% over input voltage range Rpl-1% P-P
109	IC1018F	52	6J		MP87	Vi-18V max;Vo⍁-5-500V;Po-250mW max;Reg. .25% over input voltage range Rpl-1% P-P
110	IC1018J	52	6J		MP88	Vi-18V max;Vo⍁-5-500V;Po-250mW max;Reg. .25% over input voltage range Rpl-1% P-P

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) TYPE No.

LINE No.	2 TYPE No.	1 USE	TEMP CODE -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO	GENERAL DESCRIPTION
1	IC1018R	52	6J		MP89	Vi-18V max;Vo⍁-5-500V;Po-250mW max;Reg. .25% over input voltage range Rpl-1% P-P
2	IC2240C	52	6J		MP86	Vi-40V max;Vo⍁-5-500V;Po-250mW max;Reg. .25% over input voltage range Rpl-1% P-P
3	IC2240F	52	6J		MP87	Vi-40V max;Vo⍁-5-500V;Po-250mW max;Reg. .25% over input voltage range Rpl-1% P-P
4	IC2240J	52	6J		MP88	Vi-40V max;Vo⍁-5-500V;Po-250mW max;Reg. .25% over input voltage range Rpl-1% P-P
5	IC2240R	52	6J		MP89	Vi-40V max;Vo⍁-5-500V;Po-250mW max;Reg. .25% over input voltage range Rpl-1% P-P
6	Z15DZ30DL	52	27		MP306	Vi 5VDC†;Vo ±15V;Io 30mA;Load Reg. 0.5%†;Line Reg. 0.5%†;Rpl 5mVrms†.
7	Z15DZ30DP	52	27		MP306	Vi 5VDC†;Vo ±15V;Io 30mA;Load Reg. 0.02%Δ;Line Reg. 0.02%Δ;Rpl 2mVrms†.
8	Z15DZ30DU	52	27		MP306	Vi 5VDC†;Vo 15V;Io 30mA;Max error including Load Reg.and Tolerance ±10%Δ;Rpl 1%Δ.
9	Z15DZ65DL	52	27		MP306	Vi 5VDC†;Vo ±15V;Io 65mA;Load Reg. 0.5%†;Line Reg. 0.5%†;Rpl 5mVrms†.
10	Z15DZ65DP	52	27		MP306	Vi 5VDC†;Vo ±15V;Io 65mA;Load Reg. 0.02%Δ;Line Reg. 0.02%Δ;Rpl 2mVrms†.
11	Z15DZ65DU	52	27		MP306	Vi 5VDC†;Vo ±15V;Io 65mA;Max error including Load Reg.and Tolerance ±10%Δ;Rpl 1%†.
12	Z15DZ100DL	52	27		MP306	Vi 5VDC†;Vo ±15V;Io 100mA;Load Reg. 0.5%†;Line Reg. 0.5%†;Rpl 5mVrms†.
13	Z15DZ100DP	52	27		MP306	Vi 5VDC†;Vo ±15V;Io 100mA;Load Reg. 0.02%Δ;Line Reg. 0.02%Δ;Rpl 2mVrms†.
14	Z15DZ100DU	52	27		MP306	Vi 5VDC†;Vo ±15V;Io 100mA;Max error including Load Reg.and Tolerance ±10%Δ;Rpl 1%†.
15	Z15DZ100SL	52	27		MP306	Vi 5VDC†;Vo 15V;Io 100mA;Load Reg. 0.5%†;Line Reg. 0.5%†;Rpl 5mVrms†.
16	Z15DZ100SU	52	27		MP306	Vi 5VDC†;Vo ±15V;Io 100mA;Max error including Load Reg.and Tolerance ±10%Δ;Rpl 1%†.
17	Z15DZ200DL	52	27		MP306	Vi 5VDC†;Vo ±15V;Io 200mA;Load Reg. 0.5%†;Line Reg. 0.5%†;Rpl 5mVrms†.
18	Z15DZ200DU	52	27		MP306	Vi 5VDC†;Vo ±15V;Io 200mA;Max error including Load Reg.and Tolerance ±10%Δ;Rpl 1%†.
19	Z15EZ40TL#1	52	27		MP306	Vi 12VDC†;Vo ±15V;Io 40mA;Load Reg. 0.5%†;Line Reg. 0.5%†;Rpl 5mVrms†.
20	Z15EZ40TL#2	52	27		MP306	Vi 12VDC†;Vo 5V;Io 200mA;Load Reg. 0.5%†;Line Reg. 0.5%†;Rpl 5mVrms†.
21	Z15FZ40TL#1	52	27		MP306	Vi 28VDC†;Vo ±15V;Io 40mA;Load Reg. 0.5%†;Line Reg. 0.5%†;Rpl 5mVrms†.
22	Z15FZ40TL#2	52	27		MP306	Vi 28VDC†;Vo 5V;Io 200mA;Load Reg. 0.5%†;Line Reg. 0.5%†;Rpl 5mVrms†.
23	Z200DZ20SU	52	27		MP306	Vi 5VDC†;Vo 200V;Io 20mA;Max error including Load Reg.and Tolerance ±10%Δ;Rpl 1%†.
24	MRD6039T	54	49	Z139	FP17	Monolithic Photo-Transistor Array;Vce breakdown 30V†;Pd 200mW.
25	SG1831J	54	5C		TO116	2NPN;hFE 2000;BVCEO 2.0V;VCC 40V;hFE 100.
26	SG1832J	54	5C		TO116	2PNP;hFE 2000;BVCEO 2.0V;VCC 40V;hFE 100.
27	SG2831J	54	5C		TO116	2NPN;hFE 2000;BVCEO 2.0V;VCC 40V;hFE 100.
28	SG2832J	54	5C		TO116	2PNP;hFE 2000;BVCEO 2.0V;VCC 40V;hFE 100.
29	SG3831J	54	5C		TO116	2NPN;hFE 1000;BVCEO 4.0V;VCC 40V;hFE 100.
30	SG3832J	54	5C		TO116	2 PNP;hFE 1000;BVCEO 2.0V;VCE 40V;hFE 100.
31	TAA530	54		Z022	CN27	4 trn;Pt 50mW;Vds-25V max;Vsb-25V max;Rgs-10TΩ;IA-2nA.
32	VA3018	54	5C	Z007	CN18	1 Darl 2 Tran;Veb 5VΔ;BVCBO 20VΔ;BVCEO 15VΔ;Ic 50mAΔ;Pd 300mWΔ;hFE 30*;fT 300MHz*.
33	VA3018A	54	5C	Z007	CN18	1 Darl 2 Tran;Veb 5VΔ;BVCBO 30VΔ;BVCEO 15V;Ic 50mAΔ;Pd 300mW;hFE 60*;fT 300MHz*.
34	VA3036	54	5C	Z009	CN10d	2 Darl prs;Veb 5VΔ;BVCBO 30VΔ;BVCEO 15VΔ;Ic 50mAΔ;Pd 300mWΔ;hFE 82†;fT 150MHz†.
35	VA3045	54	5C	Z010	MP3	5 Tran;Veb 5VΔ;BVCBO 20VΔ;BVCEO 15VΔ;Ic 50mAΔ;Pd 300mWΔ;hFE 110†;fT 300MHz†.
36	VA3049	54	5C	Z008a	CN18	6NPN Trans;BVCBO 20V;BVCEO 15V;BVEBO 5.0V;Ic 50mA;Pd 600mWΔ;fT 1.3GHz.
37	PPL1P	55			CB1	BVcbo 40VΔ; BVebo 5VΔ; Ic 1.0mA†; BVceo 40VΔ; Pd 300mWΔ.
38#	SFC2001	56	07	Z001	TO100	BVcbo 10VΔ;BVebo5.0VΔ;Ic10mAΔ;Pd100mW;FT 100MHz†.
39#	TAA101	56	07	Z001	TO74	Pd 100mW;BVCBO 10V;BVEBO 5.0V;IC 10mA;hFE75†.
40	2255A	57	56			BiPolar:Tc ±.01% FS/°C;ΔVo 1.0V/Decade
41	2417	57	56			Dio 6;Acc ±3.0% max;Dynamic Range 120dB.
42	2421	57	56			Dio 4;BW 3dB 10MHz;ΔVo 60mV/Decade.
43	2532	57	27		MP⍁	Wide Band Cascadable Amp;Dynamic Range 20dB;BW 10MHz;Pd 570mW.
44#	M5121P	57	27	Z065	MP55	FM Multiplex Stereo Demodulator;ΔVs17VΔ;Pd 360mW;THD 1.0%Δ;Zin 20kΩ†.
45	PL1N	57			MP6j	BVcbo 40VΔ;BVebo5VΔ;Ic1.0mA†;BVceo40VΔ;Pd300mWΔ.
46	PL1P	57			MP6j	BVcbo 40VΔ;BVebo5VΔ;Ic1.0mA†;BVceo40VΔ;Pd300mWΔ.
47	PPL1N	57			CB1	BVcbo 40VΔ;BVebo5VΔ;Ic1.0mA†;BVceo40VΔ;Pd300mWΔ.
48	VA3039	58	5C	Z013	CN18	6 Diodes;PIV 5.0VΔ;IF 25mAΔ;VF .90VΔ;IR 10uAΔ;trr 1.0ns†;Cd .65pf†;Pd 100mWΔ.
49	4JD13V§	59	1C	F045	TO98	Shunt voltage regulating element;Cd 10pF max;Pd 400mW.
50	220§	59	28		MP113	Comparator;Two Outputs switch at Vin equal 0 and equal level input Voltages.
51	920§	59	28	A039	OCT	Shaded Pole Motor Ampt.;triac blocking volt 200V;triac volt drop 2.0V.
52	GEL1496	59	08	Z052	TO100	Balanced Modulator-Demodulator;ΔVS 20§;Pd 33mW†;Vo 8.0V†.
53	GEL1596	59	5C	Z052	TO100	Balanced Modulator-Demodulator;ΔVS 20§;Pd 33mW†;Vo 8.0V†.
54	GEL2111AL1	59	08	Z017	MP50a	FM detector and limiter;Pd 800mWΔ;VS 15Δ;Freq. 5.0k to 50MHz;IS 22mΔ.
55	GEL2111F1	59	08	Z017	TO116	FM detector and limiter;Pd 800mWΔ;VS 15VΔ;Freq. 5.0k to 50MHz;IS 22mAΔ.
56	GEL2113AL1	59	08	Z017	MP50a	FM detector and limiter;Pd 800mWΔ;VS 14VΔ;IS 19mAΔ;Freq. 5.0k to 50MHz.
57	GEL2113F1	59	08	Z017	TO116	FM detector and limiter;Pd 800mWΔ;VS 14VΔ;IS 19mAΔ;Freq. 5.0k to 50MHz.
58	GEL2117AL1	59	08	Z101	MP50a	FM detector/limiter and preamplifier;Pd 800mW;VS 15VΔ;IS 40mAΔ;Gain to 30MHz.
59	GEL2117F1	59	08	Z101	TO116	FM detector/limiter and preamplifier;Pd 800mWΔ;VS 15VΔ;IS 40mAΔ;gain to 30MHz.
60	HAD130	59	28		CN29	Op. Amp/Photodiode;ΔVs-21V;Open Loop Gain-66db;Slew Rate-400mV/usec;Sens.-500nA/uW
61	LA103	59	5C	Z005	CN25	Regulator Diode;Pd250mW;IR20mA;IF100mA;BV available 2.4 to 5.6V.
62	LA170	59	5C	C004	TO74	AGC/Squelch Amp;VS24V;GV37db*;Vi±19V;Bias Current10uAΔ.
63	LA270	59	27	C004	TO74	AGC/Squelch Amp;VS24V;GV37db*;Vi±19V;Bias Current10uAΔ.
64	LA370	59	07	C004	TO74	AGC/Squelch Amp;VS24V;GV37db*;Vi±19V;Bias Current12uAΔ.
65#	M5103P	59	1A	Z014	MP56	AM Radio Receivers;Vs7.5V;Pd300mW.
66#	M5105P	59	25	Z015	MP14g	FM/AM IF Amplifiers and AF Driver;Vs10V;Pd250mW.
67#	M5181P	59	27	Z185	MP266	Chroma Band-Pass Amp/ACC Amp;VS 12V;Pd 380mW.
68	MC1304L	59	07	Z030	TO116	FM Multiplex Stereo Demodulator;Pd150mW†;THD1.0%Δ;Zin12kΩ*;Chan.Bal.500mdB†.
69	MC1304PQ	59	07	Z030	MP160	FM Multiplex Stereo Demodulator;Pd 150mW†;THD 1.0%Δ;Zin 12kΩ*;Chan.Bal. 500mdB†.
70	MC1305L	59	07	Z031	TO116	FM Multiplex Stereo Demodulator;Pd150mW†;THD1.0%Δ;Zin12kΩ*;Chan.Bal.500mdB†.
71	MC1305PQ	59	07	Z031	MP160	FM Multiplex Stereo Demodulator;Pd 150mW†;THD 1.0%Δ;Zin 12kΩ*;Chan.Bal. 500mdB†.
72	MC1325L	59	07	Z032	TO116	Dual Chroma Demodulator;Zin2.3kΩ;Vs20V;Vo15.5V†;Z out 100Ω†;ΔVref 2.0 Neg10V.
73	MC1325P	59	07	Z032	MP25a	Dual Chroma Demodulator;Zin2.3kΩ;Vs20V;Vo15.5V†;Z out 100Ω†;ΔVref 2.0 Neg10V.
74	RM183G*§	59	5C	C049	TO84	MaxPower Comsumption 7.5mW;INPUT NOISE VOLTAGE 0.5uV.
75	RM4441J*§	59	5C	G014	FP6a	LINE RECEIVER;SUPPLY VOLTAGE TWO Neg10V and One Pos20V;Toff80n†.
76	SE565A	59				Phase Locked Loop; FM Demodulation; Freq shift keying.
77	SG1496G	59	07	Z052	CN10b	Balanced Modulator-Demodulator;ΔVS 20§;Pd 33mW†;Vo 8.0†;Carr Suppr 65dB† at 500kHz.
78	SG1496L	59	07	Z052	MP139a	Balanced Modulator-Demodulator;ΔVS 20§;Pd 33mW†;Vo 8.0†;Carr Suppr 65dB† at 500kHz.
79	SG1596G	59	5C	Z052	CN10b	Balanced Modulator-Demodulator;ΔVS 20§;Pd 33mW†;Vo 8.0†;Carr Suppr 65dB† at 500kHz.
80	SG1596L	59	5C	Z052	MP139a	Balanced Modulator-Demodulator;ΔVS 20§;Pd 33mW†;Vo 8.0†;Carr Suppr 65dB† at 500kHz.
81#	SL620G	59	07	Z048		AGC Generator;Max Vo 2.0*;Quiescent Cur 4.1mAΔ;R0-12Ω*;Ri-1.0kΩ.
82#	SL621G	59	07	Z048a		AGC Generator;Max Vo 5.1*;Quiescent Cur 4.1mAΔ;Ro-20Ω*;Ri-350Ω.
83#	SL630G§	59	07	C050		Mic Amp W/AGC and Muting;LF Resp-800Hz;Allenuation Vs AGC-0.0dB at .80V and 60dB at 1.8V.
84#	SL640G	59	07	Z050		Double Balanced Modulator;Quiescent Cur 16mAΔ;Conv gain-2.0dBΔ.
85#	SL641G	59	07	Z049		Double Balanced Modulator;Quiescent Cur 13mAΔ;Conv Transcon-3.5mmhoΔ.
86	SN56514	59	5C	Z081	TO100	Doubly balanced mixer;Pd 131mWΔ;Vs 12V;Conversion Gain 14db†;LoPower 5.0mWΔ.
87	SPH0130	59		F050	CN22b	Shunt Regulator;Po 31W at 100°C;Rpl 40db min;Reg. 75mV max.
88	SPH0131	59		F050a	CN22b	Shunt Regulator;Po 31W at 100°C;Rpl 40db min;Reg. 75mV max.
89	TAA470	59			TO72	Thermal matched RGB matrix preamp, Vt-12V;Pt-400mW.
90#	TAA920	59	26	Z168	MP252	AM/FM-IF Amplifier;Vs 15V;Pd 300mW;Ri 40kΩ;Noise Ratio 50db*
91#	TBA110A	59	6		TO116	AM/FM IF Amp,VB 10Vmax;VO 130mV at VI 50 uV.
92#	TBA110B	59	6		MP50	AM/FM IF Amp;VB 10Vmax;VO 130mV at VI 50uV.
93#	TBA311	59	27	Z127	MP217	TV video processing circuit;Vs 16V;Pd 500mW;Ri 2.7kΩ.
94	uA719-5F§	59	5C	D008	TO100	Limiter/FM Detector/Single Stage Amp for IF Systems to 50MHz.
95	uA719C-5F§	59	07	D008	TO100	Limiter/FM Detector/Single Stage Amp for IF Systems to 50MHz.
96	uA784-9A	59	48	Z147	MP39d	TV/FM Sound System;Vs 32V;Pd 500mW;Is 40mA;IF Gv 70db*;Dist 5.0%Δ.
97	uA784-9C	59	48	Z147	MP227	TV/FM Sound System;Vs 32V;Pd 500mW;Is 40mA;IF Gv 70db;Dist 5.0%Δ.
98	uA785-9B	59	2C	Z148	MP177a	TV Signal Processing Circuit;Vs 12V;Is 25mAΔ;Pd 600mW;Gv 3.0V/V†;RI 2.7kΩ†.
99	uA785-9D	59	2C	Z148	MP229	TV Signal Processing Circuit;Vs 12V;Is 25mAΔ;Pd 600mW;Gv 3.0V/V†;RI 2.7kΩ†.
100	uA786-9B	59	48	Z149	MP177a	PAL Color TV Chroma Demodulator;Vs12V;Is40mAΔ;Pd550mW;Ro 100ΩΔ;Color Diff.Gain 7.0V/VΔ.
101	uA786-9D	59	48	Z149	MP229	PAL Color TV Chroma Demodulator;Vs12V;Is40mAΔ;Pd550mW;Ro 100ΩΔ;Color Diff.Gain 7.0V/VΔ.
102	uA3064-5A	59	48	Z055	CN⍁	TV Auto.Fine Tuning Ckt w/wideband and DC Amps;Diff. Detector and Zener Diode V.Regulator.
103	uA3065-7F	59	48	Z064	MP226	IF Amp-Limiter;FM Detector;Electronic Attenuator;Audio Driver;Pd 850mW;Ro 270Ω†;RI 70kΩ†.
104	uA3065-9A	59	48	Z064	MP39d	IF Amp-Limiter;FM Detector;Electronic Attenuator;Audio Driver;Pd 850mW;Ro 270Ω†;RI 70kΩ†.
105	uA3065-9C	59	48	Z064	MP227	IF Amp-Limiter;FM Detector, Electronic Attenuator;Audio Driver;Pd 850mW;Ro 270Ω†;RI 70kΩ†.
106	ULN2117A	59	38	Z133	MP14w	FM Detector and Limiter;Pd 600mWΔ;Icc 30mA;Vcc 12V;freq. to 30MHz;Audio preamp included.
107	ULN2117N	59	38	Z133	MP50b	FM Detector and Limiter;Pd 600mWΔ;Icc 30mA,Vcc 12V;freq. to 30MHz;Audio preamp included.
108#	ZSP6	59	4C	Z093	CN23	PNP Emitter Follower;Vs 4.4VΔ;Pd 40mW;Stage Delay Time 5.0ns.
109#	ZSP7	59	4C	Z094	CN23	PNP Emitter Follower;Vs 4.4VΔ;Pd 40mW;Stage Delay Time 5.0ns.
110	MRD6039D	60	49	Z140	FP17	Monolithic Photo-Diode Array;PIV 50V†;Pd 200mW.

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) TYPE No.

LINE No.	2 TYPE No.	1 USE	TEMP CODE -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO	GENERAL DESCRIPTION
1	VA3019	60	5C	Z041	CN10d	6 Diodes;Pd 120mWΔ;Vs 12V;VF 7.3V;IR 10uA;Cd 1.8pf;V(BR)R 6.0V.
2	7100§	61	07	Z027	CN20a	Timing Device;Timing Interval 10usec;ΔVo 20V;ΔIo 40mA;Pd 300mW max;Cd in 7.0pf.
3#	ZBA1	61	5F	Z016	TO78	Vs20VΔ;BVcbo6.0VΔ;Pd350mWΔ;hFE30*atIc1.0mA;FT10MHz*.
4	GEL300F1	62	27	Z038	MP13	Zero Voltage Switch;VS 15V;Io 100mA;Vo 15V;Pd 440mW.
5	GEL301F1	62	58	Z039	MP13	Phase Control for trial triggering;VS 7.5 to 11V;Io 400mA;IS ±36mA;IG ±2.0A.
6#	MT103-2.4	63	5C	Z005	CN25	Regulator diode;Breakdown Volt. 2.4V at Ir 1.0mA;Pd 250mW;TC -3.3mV/°C†.
7#	MT103-2.7	63	5C	Z005	CN25	Regulator diode;Breakdown Volt 2.7V at Ir 1.0mA;Pd 250mW;TC -3.3mV/°C†.
8#	MT103-3.0	63	5C	Z005	CN25	Regulator diode;Breakdown Volt 3.0V at Ir 1.0mA;Pd 250mW;TC -3.3mV/°C†.
9#	MT103-3.3	63	5C	Z005	CN25	Regulator diode;Breakdown Volt 3.3V at Ir 1.0mA;Pd 250mW;TC -3.3mV/°C†.
10#	MT103-3.6	63	5C	Z005	CN25	Regulator diode;Breakdown Volt 3.6V at Ir 1.0mW;Pd 250mW;TC -3.3mV/°C†.
11#	MT103-3.9	63	5C	Z005	CN25	Regulator diode;Breakdown Volt 3.9V at Ir 1.0mA;Pd 250mW;TC -3.3mV/°C†.
12#	MT103-4.3	63	5C	Z005	CN25	Regulator diode;Breakdown Volt 4.3V at Ir 1.0mA;Pd 250mW;TC -3.3mV/°C†.
13#	MT103-4.7	63	5C	Z005	CN25	Regulator diode;Breakdown Volt 4.7V at Ir 1.0mA;Pd 250mW;TC -3.3mV/°C†.
14#	MT103-5.1	63	5C	Z005	CN25	Regulator diode;Breakdown Volt 5.1V at Ir 1.0mA;Pd 250mW;TC -3.3mV/°C†.
15#	MT103-5.6	63	5C	Z005	CN25	Regulator diode;Breakdown Volt 5.6V at Ir 1.0mA;Pd 250mW;TC -3.3mV/°C†.
16	NRAM1000	63	5F	Z025	MP85	NPN Configuration;for PNP see PRAM series;Vref 6.8V;TC .005%/°C max.
17	NRAM1100	63	5F	Z025	MP85	NPN Configuration;for PNP see PRAM series;Vref 6.8V;TC .002%/°C max.
18	NRAM1200	63	5F	Z025	MP85	NPN Configuration;for PNP see PRAM series;Vref 6.8V;TC .001%/°C max.
19	NRAM2000	63	5F	Z025	MP85	NPN Configuration;for PNP see PRAM series;Vref 6.8V;TC .005%/°C max.
20	NRAM2100	63	5F	Z025	MP85	NPN Configuration;for PNP see PRAM series;Vref 6.8V;TC .002%/°C max.
21	NRAM2200	63	5F	Z025	MP85	NPN Configuration;for PNP see PRAM series;Vref 6.8V;TC .001%/°C max.
22	NRAM3000	63	5F	Z025	MP85	NPN Configuration;for PNP see PRAM series;Vref 6.8V;TC .005%/°C max.
23	NRAM3100	63	5F	Z025	MP85	NPN Configuration;for PNP see PRAM series;Vref 6.8V;TC .002%/°C max.
24	NRAM3200	63	5F	Z025	MP85	NPN Configuration;for PNP see PRAM series;Vref 6.8V;TC .001%/°C max.
25	PRAM1000	63	5F	Z026	MP85	PNP Configuration;for NPN see NRAM series;Vref 6.8V;TC .005%/°C max.
26	PRAM1100	63	5F	Z026	MP85	PNP Configuration;for NPN see NRAM series;Vref 6.8V;TC .005%/°C max.
27	PRAM1200	63	5F	Z026	MP85	PNP Configuration;for NPN see NRAM series;Vref 6.8V;TC .001%/°C max.
28	PRAM2000	63	5F	Z026	MP85	PNP Configuration;for NPN see NRAM series;Vref 6.8V;TC .005%/°C max.
29	PRAM2100	63	5F	Z026	MP85	PNP Configuration;for NPN see NRAM series;Vref 6.8V;TC .002%/°C max.
30	PRAM2200	63	5F	Z026	MP85	PNP Configuration;for NPN see NRAM series;Vref 6.8V;TC .001%/°C max.
31	PRAM3000	63	5F	Z026	MP85	PNP Configuration;for NPN see NRAM series;Vref 11V;TC .005%/°C max.
32	PRAM3100	63	5F	Z026	MP85	PNP Configuration;for NPN see NRAM series;Vref 11V;TC .002%/°C max.
33	PRAM3200	63	5F	Z026	MP85	PNP Configuration;for NPN see NRAM series;Vref 11V;TC .001%/°C max.
34#	TAA940D	63	2F		MP282	Referenced Diode;Stabilized Volt 31V;TC 10uV/°C;Diff.Res 10Ω.
35#	TAA940E	63	2F		MP282	Referenced Diode;Stabilized Volt 33V;TC 10uV/°C;Diff.Res 10Ω.
36#	TAA940F	63	2F		MP282	Referenced Diode;Stabilized Volt 35V;TC 10uV/°C;Diff.Res 10Ω.
37#	TAA930A	66	26	Z017	MP250	Circuit for Sound IF Ampl in TV Sets;Vs 15V;Vi 3.5V;Pd 300mW;Gv 60db.
38#	TAA930B	66	26	Z017	MP227a	Circuit for Sound IF Ampl in TV Sets;Vs 15V;Vi 3.5V;Pd 300mW;Gv 60db.
39#	SL435C	67			MP280	Colour Demodulator;Vs 18V;Is 44mAΔ;Io 50Ω†.
40#	SL436B	67			MP280	T.V. P.A.L. Colour Decoder.
41#	MT172	69	5C	C005	CN1c	AM IF strip;AGC Range 69dB†;AGC Threshold 50uVrms†;Freq. 2.0MHz†.
42#	MT272	69	27	C005	CN1c	AM IF strip;AGC Range 60dB†;AGC Threshold 50uVrms†;Freq. 2.0MHz†.
43#	MT373	69	07	Z152	CN10e	AM/FM/SSB IF strip;Vs 15V;AGC Threshold 30uVrms†;Audio Outp. 500mVp-p†.
44	TAA380	69	26	Z023	CN27	Wideband Amp/Limiter/Discriminator/for FM receiver with 10.7MHz I.F.
45#	MT170	73	5C	Z151	CN10e	AGC/Squelch Amp;Gv 37.5dB*;DC Output Shift 200mVΔ;Vo 6.0V†.
46#	MT270	73	27	Z151	CN10e	AGC/Squelch Amp;Gv 37.5dB*;DC Output Shift 500mVΔ;Vo 6.0V†.
47#	MT370	73	07	Z151	CN10e	AGC/Squelch Amp;Gv 35dB*;DC Output Shift 1.0VΔ;Vo 6.0V†.

PART C

DISCONTINUED MSI-LSI MEMORY CIRCUITS

SYMBOLS & CODES

TYPE No. (CROSS-INDEX & TECHNICAL SECTIONS)

△ # ⍁ Indicators of separate manufacturers producing same type number (non-JEDEC) whose characterics are not the same. This manufacturer–identifying symbol (assigned by D.A.T.A.) is an integral part of the type number (in Type No. Cross Index, Technical Data Sections) to avoid the possibility of confusing the device of one manufacturer with the devices of the others.

Example...	Type No.	Manufacturer	Description
	DD31 △	CCD	Shift Register
	DD31 #	CLC	RAM
	DD31 ⍁	ZEL	ROM

#1, #2 ... The modifier is designated by D.A.T.A. to distinguish between type no. designations which give only one type no. but have more than one electrical function or package.

%: (Sect. 4 & 6) Device requires companion device to complete code; see logic drawing.

SYMBOLS & CODES COMMON TO ALL TECHNICAL SECTIONS

NOTE: UNLESS OTHERWISE INDICATED, ALL CHARACTERISTICS APPLY OVER THE ENTIRE OPERATING TEMPERATURE RANGE.

LINE No.

▼ – NEW TYPE
♦ – REVISED SPECIFICATION
– MANUFACTURED OUTSIDE U.S.A.

MAX. OPERATING POWER DISSIPATION

† : Typical
∗ : Minimum
% : Per bit
♦ : Quiescent power dissipation
⍁ : Absolute maximum
∅ : At 25°C

INPUT LOGIC LEVEL: MAX. '0'

† : Typical
∗ : Minimum
% : Output (not Input) value given. (This also applies for value given for '1' level).
♦ : Bipolar load only; can be adjusted for the MOS load. (Applies for '1' level value, also).
∅ : At 25° C

MINIMUM OUTPUT SINK CURRENT

† : Typical
# : Maximum
$: Minimum output source current
♦ : Minimum output high current
△ : Maximum output leakage current
% : Minimum driving (fanout) current
⍁ : Absolute max. rated output current
∅ : At 25° C

OUTLINE DRAWINGS

CY: TO-5 type (non-JEDEC)
CH: Chip Package
FL: Flat package (non-JEDEC)
ML: Molded or encapsulated package not included in other categories.
MO: Standard JEDEC outline
PL: Printed circuit board
TO: Standard JEDEC outline
⍁: Package style only shown; no dimensions.

LOGIC/BLOCK DRAWINGS

A: RAMs
B: ROMs
C: Character Generators
D: CAMs
E: Code Converters
F: Shift Registers
§ : Optional Terminal Connections Available; Consult Manufacturer

STRUCTURE CODE

3–LETTER CODE: X X X

TECHNOLOGY

B: Bipolar
H: Hybrid i.e., Bipolar/MOS (MOS characteristics given for 2nd & 3rd letters of code)
M: MOS
T: Thin film

TYPE

A: Amorphous
C: Complementary Symmetry (N+P) } MOS Only
N: N-Channel } MOS Only
P: P-Channel } MOS Only
D: DTL } Bipolar Only
E: ECL } Bipolar Only
R: RTL } Bipolar Only
T: TTL } Bipolar Only
X: Not Applicable or Not Specified

PROCESS

A: Aluminum Gate
C: Conventional
D: Schottky Process
G: Silicon Gate
I: Ion-Implanted
N: Silicon Nitride
R: RMOS
S: Silicon-On-Sapphire
T: Thick Oxide
X: Not Applicable or Not Specified

SYMBOLS
∅ : Mounted on PC board.
⍁ : More than one process used; only one is specified.

OPERATING TEMPERATURE CODE

0– 0 up to 10°C
1– 10 up to 20°C
2– 20 up to 30°C
3– 30 up to 40°C
4– 40 up to 50°C
5– 50 up to 60°C
6– 60 up to 70°C
7– 70 up to 80°C
8– 80 up to 90°C
9– 90 up to 100°C
A–100 up to 110°C
B–110 up to 120°C
C–120 up to 130°C
D–130 up to 140°C
E–140 up to 150°C
F–150 up to 160°C
G–160 up to 170°C
H–170 up to 180°C
J–180 up to 190°C
K–190 up to 200°C

▼– USED IN NEGATIVE COLUMN TO INDICATE VALUE IS POSITIVE

EXAMPLES OF OPERATING TEMP. RANGE CODE:

5 C

MIN. VALUE LIES BETWEEN –50° AND –60°C	MAX. VALUE LIES BETWEEN +120°C AND +130°C

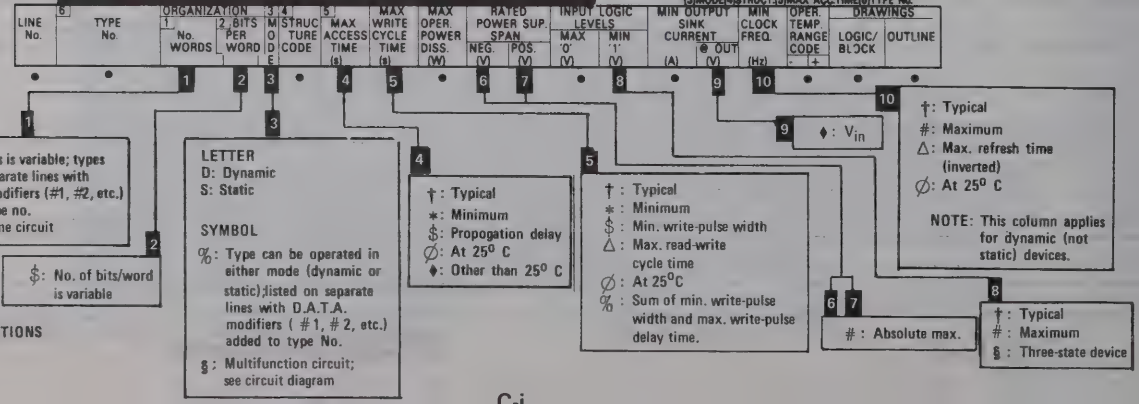
OR

1▼ 8

MIN. VALUE LIES BETWEEN +10°C AND +20°C	MAX. VALUE LIES BETWEEN +80°C AND +90°C

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD (3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.



1
$: No. of words is variable; types listed on separate lines with D.A.T.A. modifiers (#1, #2, etc.) added to type no.
§ : More than one circuit

2
$: No. of bits/word is variable

3
LETTER
D: Dynamic
S: Static

SYMBOL
%: Type can be operated in either mode (dynamic or static);listed on separate lines with D.A.T.A. modifiers (#1, #2, etc.) added to type No.
§ : Multifunction circuit; see circuit diagram

4
† : Typical
∗: Minimum
$: Propogation delay
∅: At 25° C
♦: Other than 25° C

5
† : Typical
∗ : Minimum
$: Min. write-pulse width
△ : Max. read-write cycle time
∅ : At 25°C
% : Sum of min. write-pulse width and max. write-pulse delay time.

6 7
# : Absolute max.

8
† : Typical
# : Maximum
§ : Three-state device

9
♦ : V_{in}

10
†: Typical
#: Maximum
△: Max. refresh time (inverted)
∅: At 25° C

NOTE: This column applies for dynamic (not static) devices.

● SEE SYMBOLS AND CODES COMMON TO ALL TECHNICAL SECTIONS

SYMBOLS & CODES

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)No.WDS(2)No.BITS/WD(3)OP.MODE PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	6 TYPE No.	ORGANIZATION			4	5	MAX	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		OPER. TEMP. RANGE CODE		GENERAL DESCRIPTION	DRAWINGS	
		1 No. WORDS	2 BITS PER WORD	3 OP MODE PROG CODE	STRUCTURE CODE	MAX ACCESS TIME (s)	OPER. POWER DISS. (W)	NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	@ OUT (V)	-	+		LOGIC/ BLOCK	OUTLINE
●	●	1	2	3	●	4	●	5	6	●	7	●	8	●		9	●	●

1

$: No. of words is variable; types listed on separate lines with D.A.T.A. modifiers (#1, #2, etc.) added to type no.

§: More than one circuit

2

$: No. of bits/word is variable.

3

2–LETTER CODE: X X

OPERATING MODE
- D: Dynamic (see description column for max. refresh time or min. clock freq.)
- S: Static

PROGRAM CODE
- C: Mask programmable: custom program
- E: Electrically programmable
- S: Mask programmable: standard program (see the description column for program).

SYMBOLS

%: Type can be operated in either mode (dynamic or static): listed on separate lines with D.A.T.A. modifiers (#1, #2, etc.) added to type number; see Cross Index.

4

- †: Typical
- *: Minimum
- $: Propogation delay
- Δ: Cycle time
- ∅: At 25° C
- ♦: Other than 25°C

5 6

#: Absolute Max.

7

- †: Typical
- #: Maximum
- §: Three-state device

8

♦: V_{in}

9

ABBREVIATIONS

PR	Program
fc	Min. clock frequency
TR	Max. Refresh time
Vol	Volatile
FO	Fanout
CS	Chip select
Std	Standard
KE	Key Encoder

- **SEE SYMBOLS AND CODES COMMON TO ALL TECHNICAL SECTIONS**

4. CHARACTER GENERATORS

IN ORDER OF (1)USE CODE(2)No.CHARACTERS (3)No.BITS/CHAR(4)No.OUT(5)STRUCT(6)TYPE No.

LINE No.	6 TYPE No.	1 USE CODE	2 No. CHARACTERS	3 BITS PER CHAR.	4 No. OUTPUTS	5 STRUCTURE CODE	MAX ACCESS TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		OPER. TEMP. RANGE CODE		DRAWINGS	
									NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	@ OUT (V)	-	+	LOGIC/ BLOCK	OUT- LINE
●	●	2	3	4	5	●	6	●	7	8	●	9	●	10	●		●	●

2

3–LETTER CODE: X X X

OPERATING MODE
- D: Dynamic
- S: Static

FONT
- A: ASCII
- B: Alpha
- C: Custom
- E: EBCDIC
- N: Numeric
- S: Selectric

DISPLAY
- C: Raster: Column scan
- R: Raster: Row scan
- S: Segment or dot

SYMBOLS
- §: Does not scan complete line; scans characters by sections.
- ⍁: Scans two lines at the same time.
- %: Operates in more than one mode; indicated by the addition of D.A.T.A. modifier (#1, #2,etc.) to type number.

3

- $: No. of characters variable; types listed on separate lines with D.A.T.A. modifiers (# 1, # 2, etc.) added to type number.
- ⍁: No. shown represents only half of complete code; other half is generated by companion device.
- §: Japanese Font

4

- $: No. of bits/character is variable.
- ⍁: Two devices required to generate complete scan.

5

LETTER CODE:
A: 7 x 8 Array

SYMBOLS:
§: Individual characters scanned by one-half the outputs

6

- †: Typical
- *: Minimum
- $: Propogation delay
- Δ: Cycle time
- ∅: At 25° C
- ♦: Other than 25°C

7 8

#: Maximum

9

- †: Typical
- #: Maximum
- §: Three-state device

10

♦: V_{in}

- **SEE SYMBOLS AND CODES COMMON TO ALL TECHNICAL SECTIONS**

SYMBOLS & CODES COMMON TO ALL TECHNICAL SECTIONS

LINE No.

- ▼ – NEW TYPE
- ♦ – REVISED SPECIFICATION
- # – MANUFACTURED OUTSIDE U.S.A.

NOTE: UNLESS OTHERWISE INDICATED, ALL CHARACTERISTICS APPLY OVER THE ENTIRE OPERATING TEMPERATURE RANGE.

OUTLINE DRAWINGS

CY: TO-5 type (non-JEDEC)
CH: Chip Package
FL: Flat package (non-JEDEC)
ML: Molded or encapsulated package not included in other categories.
MO: Standard JEDEC outline
PL: Printed circuit board
TO: Standard JEDEC outline
⧄: Package style only shown; no dimensions.

MAX. OPERATING POWER DISSIPATION

†: Typical
*: Minimum
%: Per bit
♦: Quiescent power dissipation
⧄: Absolute maximum
∅: At 25°C

INPUT LOGIC LEVEL: MAX. '0'

†: Typical
*: Minimum
%: Output (not Input) value given. (This also applies for value given for '1' level).
♦: Bipolar load only; can be adjusted for the MOS load. (Applies for '1' level value, also).
∅: At 25° C

MINIMUM OUTPUT SINK CURRENT

†: Typical
#: Maximum
$: Minimum output source current
♦: Minimum output high current
Δ: Maximum output leakage current
%: Minimum driving (fanout) current
⧄: Absolute max. rated output current
∅: At 25° C

LOGIC/BLOCK DRAWINGS

A: RAMs	D: CAMs
B: ROMs	E: Code Converters
C: Character Generators	F: Shift Registers

§: Optional Terminal Connections Available; Consult Manufacturer

STRUCTURE CODE

3–LETTER CODE: X X X

TECHNOLOGY

B: Bipolar
H: Hybrid i.e., Bipolar/MOS (MOS characteristics given for 2nd & 3rd letters of code)
M: MOS
T: Thin film

TYPE

A: Amorphous
C: Complementary Symmetry (N+P)
N: N-Channel
P: P-Channel
} MOS Only
D: DTL
E: ECL
R: RTL
T: TTL
} Bipolar Only
X: Not Applicable or Not Specified

PROCESS

A: Aluminum Gate
C: Conventional
D: Schottky Process
G: Silicon Gate
I: Ion-Implanted
N: Silicon Nitride
R: RMOS
S: Silicon-On-Sapphire
T: Thick Oxide
X: Not Applicable or Not Specified

SYMBOLS
∅: Mounted on PC board.
⧄: More than one process used; only one is specified.

OPERATING TEMPERATURE CODE

0– 0 up to 10°C
1– 10 up to 20°C
2– 20 up to 30°C
3– 30 up to 40°C
4– 40 up to 50°C
5– 50 up to 60°C
6– 60 up to 70°C
7– 70 up to 80°C
8– 80 up to 90°C
9– 90 up to 100°C
A–100 up to 110°C
B–110 up to 120°C
C–120 up to 130°C
D–130 up to 140°C
E–140 up to 150°C
F–150 up to 160°C
G–160 up to 170°C
H–170 up to 180°C
J–180 up to 190°C
K–190 up to 200°C

▼– USED IN NEGATIVE COLUMN TO INDICATE VALUE IS POSITIVE

EXAMPLES OF OPERATING TEMP. RANGE CODE:

5 C

MIN. VALUE LIES BETWEEN −50° AND −60°C	MAX. VALUE LIES BETWEEN +120°C AND +130°C

OR

1▼ 8

MIN. VALUE LIES BETWEEN +10°C AND +20°C	MAX. VALUE LIES BETWEEN +80°C AND +90°C

5. CONTENT ADDRESSABLE MEMORIES (CAMS)

IN ORDER OF (1)No.WDS(2)No.BITS/WD(3)MODE (4)STRUCT.(5)MAX.SEARCH TIME(6)TYPE No.

LINE No.	6 TYPE No.	ORGANIZATION		3 MODE	4 STRUCTURE CODE	5 MAX SEARCH TIME (s)	MAX ACCESS TIME (s)	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN		INPUT LOGIC LEVELS		MIN OUTPUT SINK CURRENT		OPER. TEMP. RANGE CODE		DRAWINGS	
		1 No. WORDS	2 BITS PER WORD							NEG. (V)	POS. (V)	MAX '0' (V)	MIN '1' (V)	(A)	@ OUT (V)	-	+	LOGIC/ BLOCK	OUTLINE
●	●	1	2	3	●	4	5	6	●	7	8	●	9	●	10	●		●	●

1
$: No. of words is variable; types listed on separate lines with D.A.T.A. modifiers (#1, #2, etc.) added to type no.
§: More than one circuit

2
$: No. of bits/word is variable.

3
LETTER
D: Dynamic
S: Static

SYMBOL
%: Type can be operated in either mode (dynamic or static); listed on separate lines with D.A.T.A. modifiers (#1, # 2, etc.) added to type No.

4
†: Typical
*: Minimum
∅: At 25° C

5
†: Typical
*: Minimum
$: Propogation delay
∅: At 25° C
♦: Other than 25° C

6
†: Typical
*: Minimum
$: Minimum write-pulse width
§: Write/read time
∅: At 25° C

7 8
#: Absolute Max.

9
†: Typical
#: Maximum
§: Three-state device

10
♦: V_{in}

● SEE SYMBOLS AND CODES COMMON TO ALL TECHNICAL SECTIONS

SYMBOLS & CODES

6. CODE CONVERTERS

IN ORDER OF(1)FROM CODE(2)TO CODE(3)No.WORDS (4)No.INPUT BITS(5)No.OUTPUT BITS(6)TYPE No.

LINE No.	6 TYPE No.	CONVERSION CODE 1 FRM	CONVERSION CODE 2 TO	3 No. WORDS	No. CODE BITS 4 IN	No. CODE BITS 5 OUT	MODE	STRUCTURE CODE	MAX ACCESS TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN NEG. (V)	RATED POWER SUP. SPAN POS. (V)	INPUT LOGIC LEVELS MAX '0' (V)	INPUT LOGIC LEVELS MIN '1' (V)	MIN OUTPUT SINK CURRENT (A)	MIN OUTPUT SINK CURRENT @ OUT (V)	OPER. TEMP. RANGE CODE - +	DRAWINGS LOGIC/BLOCK	DRAWINGS OUTLINE
●	●	1	2	3	4	5	6	●	7	●	8	9	●	10	●	11	●	●	●

1 2

NUMBER:
1: USASCII
2: EBCDIC
3: Selectric
4: BCD
5: Binary
6: Hollerith
7: 96–Column

SYMBOL ('From' Column)
% 'From-To' code is reversible; listed on separate lines with D.A.T.A. modifier (#1, #2, etc.) added to type number.

3

$: No. of words is variable; types listed on separate lines with D.A.T.A. modifiers (#1, #2, etc.) added to type no.
§: More than one circuit

4 5

⧄ : Includes even parity bit
∅ : Includes odd parity bit
§ : Includes both odd and even parity bits

6

LETTER
D: Dynamic
S: Static

SYMBOL
%: Type can be operated in either mode (dynamic or static); listed on separate lines with D.A.T.A. modifiers (#1, #2, etc.) added to type No.

7

† : Typical
∗ : Minimum
$: Propogation delay
Δ : Cycle time
∅ : At 25° C
♦ : Other than 25°C

8 9

: Absolute Max.

10

† : Typical
# : Maximum
§ : Three-state device

11

♦ : V_{in}

● SEE SYMBOLS AND CODES COMMON TO ALL TECHNICAL SECTIONS

7. SHIFT REGISTERS

IN ORDER OF (1) No. BITS/REG (2) No. REGS (3) OPER. CODE (4) MAX. WORST CASE FREQ. (5) STRUCTURE (6) TYPE No.

LINE No.	6 TYPE No.	ORGANIZATION 1 BITS PER REGISTER	ORGANIZATION 2 No. REGS	3 OPER. CODE	4 MAX WORST CASE FREQ. (Hz)	5 STRUCTURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN NEG. (V)	RATED POWER SUP. SPAN POS. (V)	INPUT LOGIC LEVELS MAX '0' (V)	INPUT LOGIC LEVELS MIN '1' (V)	MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT (A)	MIN OUTPUT SINK CURRENT @ OUT (V)	MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE - +	DRAWINGS LOGIC/BLOCK	DRAWINGS OUTLINE
●	●	1	2	3	4	●	●	5	6	●	7	8	●	9	10	●	●	●

1

$: No. of bits/register made variable by internal gating.
§: Individual registers contain different numbers of bits; max. no. is specified (see schematic).
Δ: Accumulator
⧄: No. of bits/register made variable by custom programming; max. no. is specified

2

$: Separate input is made available for connection to intermediate stages.

3

3–LETTER CODE: X X X

INPUT	OUTPUT	OPERATING MODE
P: Parallel	P: Parallel	D: Dynamic
S: Series	S: Series	S: Static

SYMBOLS
$: Chip contains associated circuitry.
§ : Multifunction circuit; application depends on external connections.
% : Type can be used in either dynamic or static mode; listed on separate lines with D.A.T.A. modifiers (#1, #2, etc.) added to type no. (see Cross-Index).

4

† : Typical
∗ : Minimum
Δ : Max. clock rate
% : Max. toggle freq.
∅ : At 25° C

5 6

: Absolute max.

7

† : Typical
# : Maximum
§ : Three-state device

8

† : Typical
∗ : Minimum
Δ : Transition time
§ : Average propogation delay
∅ : At 25° C

9

♦ : V_{in}

10

†: Typical
#: Maximum
Δ: Max. refresh time (inverted)
∅: At 25° C

NOTE: This column applies for dynamic (not static) devices.

● SEE SYMBOLS AND CODES COMMON TO ALL TECHNICAL SECTIONS

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
08C05	♦CGR	3- 99
08C13	♦CGR	3- 49
08C14	♦CGR	3- 93
08C16	♦CGR	3- 90
08C19	♦CGR	3- 47
08C22	♦CGR	3- 96
08C24	♦CGR	3- 45
08C25	♦CGR	3- 43
08C41	♦CGR	3- 57
08C42	♦CGR	3- 53
08C44	♦CGR	3- 51
08C49	♦CGR	3- 87
08C50	♦CGR	3- 85
08C51	♦CGR	3- 83
08C52	♦CGR	3- 80
08C53	♦CGR	3- 55
15C06	♦CGR	4- 15
15C07	♦CGR	4- 9
15C09	♦CGR	3- 48
15C10	♦CGR	4- 18
15C12	♦CGR	4- 7
15C16	♦CGR	3- 54
15C17	♦CGR	3- 46
15C18	♦CGR	3- 58
15C19	♦CGR	3- 50
15C21	♦CGR	3- 52
15C22	♦CGR	3- 44
15C24	♦CGR	3- 56
15C40	♦CGR	3- 84
15C41	♦CGR	3- 81
15C47	♦CGR	3- 97
15C51	♦CGR	4- 2
15C52	♦CGR	4- 4
15C53	♦CGR	3-100
15C54	♦CGR	3- 94
15C55	♦CGR	3- 91
15C56	♦CGR	3- 88
15C57	♦CGR	3- 86
25C01	♦CGR	4- 43
25C02	♦CGR	4- 34
25C03	♦CGR	4- 24
25C04	♦CGR	4- 45
25C05	♦CGR	4- 37
25C06	♦CGR	4- 26
25C07	♦CGR	4- 39
25C08	♦CGR	4- 29
25C09	♦CGR	4- 41
25C10	♦CGR	4- 32
25C13	♦CGR	4- 21
25C14	♦CGR	4- 19
25C15	♦CGR	4- 16
25C16	♦CGR	4- 13
30C01	♦CGR	4- 1
30C02	♦CGR	4- 3
30C06	♦CGR	4- 42
30C13	♦CGR	4- 44
30C15	♦CGR	4- 8
30C25	♦CGR	4- 6
30C26	♦CGR	4- 40
30C27	♦CGR	4- 46
30C29	♦CGR	3- 98
30C30	♦CGR	3- 95
30C31	♦CGR	3- 92
30C32	♦CGR	3- 89
30C50	♦CGR	4- 14
30C66	♦CGR	4- 38
30C67	♦CGR	4- 25
30C68	♦CGR	4- 27
30C71	♦CGR	4- 30
30C82	♦CGR	4- 35
30C83	♦CGR	4- 20
30C89	♦CGR	4- 22
30C90	♦CGR	4- 33
30C91	♦CGR	4- 17
53MA14-1	♦GECB	9- 62
55MA25-1	♦GECB	9- 66
809-01#1	♦QDI	5- 50
809-01#2	♦QDI	5- 54
811-01	♦QDI	4- 5
811-02	♦QDI	4- 28
811-03#1	♦QDI	4- 31
811-03#2	♦QDI	4- 36
1311	ITL	6- 1
1312	ITL	6- 13
1313	ITL	6- 14
1402	♦ITL	10- 28
1403	♦ITL	10- 35
1404	♦ITL	10- 43
1405	♦ITL	10- 31
3300-4-5F	♦FSC	9- 56
3303-4-5F	♦FSC	9- 63
3303-9-5F	♦FSC	9- 64
3304-4-5F	♦FSC	9- 54
3304-9-5F	♦FSC	9- 55
3305-4-5F	♦FSC	9- 57
3305-4-6J	♦FSC	9- 58
3306-4-5F	♦FSC	9- 69
3306-4-6J	♦FSC	9- 70
3307-9-5F	♦FSC	10- 1
3320-4-5F	♦FSC	9- 78
3325-9-5F	♦FSC	9- 96
3530-4-6J	♦FSC	3- 32
5551BM	♦TSC	9- 60
5551CM	♦TSC	9- 61
5552BM	♦TSC	9- 51
5552CM	♦TSC	9- 52
8222	♦SIC	7- 8
9200-1-4L	♦FSC	9- 1
9200-1-7B	♦FSC	9- 2
9200-9-4L	♦FSC	9- 3
9200-9-7B	♦FSC	9- 4
9228-1-4L	♦FSC	9- 33
9228-1-7B	♦FSC	9- 34
9228-9-4L	♦FSC	9- 35
9228-9-7B	♦FSC	9- 36
9300-1-3L	♦GECB	9- 5
9300-9-3L	♦GECB	9- 6
93403-1-4L	♦FSC	3- 20
93403-1-7B	♦FSC	3- 21
93403-9-4L	♦FSC	3- 22
93435-1-6P	♦FSC	3- 14
91600111	♦AMS	3-109
CD4005	♦RCA	3- 5
CD4005D	♦RCA	3- 13
CD4006	♦RCA	9- 23
CD4006D	♦RCA	9- 24
CD4014D	♦RCA	9- 31
CD4015D	♦RCA	9- 22
CD4021D	RCA	9- 30
CM1801	♦CMT	4- 10
D4016	♦EEC	9- 18
D4039	♦EEC	9- 32
D4208	EEC	9- 49
D4218	♦EEC	3- 4
FDN106	♦PHIN ♦VALG	9- 72
FDN116	MULB ♦PHIN ♦VALG	9- 71
FDN126	MULB ♦PHIN ♦VALG	9- 79
FDN136	MULB ♦PHIN ♦VALG	9- 77
FDN146	MULB ♦PHIN ♦VALG	10- 22
FDN146A	MULB ♦PHIN ♦VALG	10- 23
FDN156	MULB ♦PHIN ♦VALG	10- 24
FDN156A	MULB ♦PHIN ♦VALG	10- 21
FDN166A	MULB ♦PHIN	10- 26
FDN196A	MULB ♦PHIN ♦VALG	10- 25
FDN206	MULB ♦PHIN ♦VALG	10- 18
FDN206A	MULB ♦PHIN ♦VALG	10- 19
FDN216A	♦VALG	10- 34
FDN506	♦PHIN ♦VALG	9- 67
FDN516A	♦PHIN ♦VALG	9- 68
FDN526A	♦PHIN ♦VALG	10- 3
GER542W1#1	♦GESY	5- 56
GER542W1#2	♦GESY	5- 55
GER542W1#3	♦GESY	5- 53
GER542W1#4	♦GESY	5- 49
GER543W1	♦GESY	6- 4
GER1101	♦GESY	3- 71
GER1103	♦GESY	3-108
GER11011	♦GESY	3- 70
HRAM0016-2	♦HAS	3- 11
HRAM0016-5	♦HAS	3- 12
HROM1024-2-0002	♦HAS	8- 13
HROM1024-2-0003	♦HAS	8- 14
HROM1024-2-0004	♦HAS	8- 5
HROM1024-2-0005	♦HAS	8- 6
HROM1024-5-0002	♦HAS	8- 15
HROM1024-5-0003	♦HAS	8- 16
HROM1024-5-0004	♦HAS	8- 7
HROM1024-5-0005	♦HAS	8- 8
HROM1256-2	♦HAS	5- 18
HROM1256-5	♦HAS	5- 19
IFR0211	♦EEC	9- 25
IFR2211	♦EEC	9- 26
IM5502#1	♦INL	3- 6
IM5502#2	♦INL	3- 7
IM5512#1	♦INL	3- 8
IM5512#2	♦INL	3- 9
IM5532	INL	3- 10
IM5563CDE	INL	3- 79
IM5603MPE	♦INL	5- 32
IM7601CDE	♦INL	5- 23
IM7601MDE	♦INL	5- 24
IM7602CDG	♦INL	5- 8
IM7602MDG	♦INL	5- 9
IM7603CDG	♦INL	5- 38
IM7603MDG	♦INL	5- 39
IM7604CDG	♦INL	5- 46
IM7604MDG	♦INL	5- 40
IM7605CDG	♦INL	5- 47
IM7605MDG	♦INL	5- 41
IM7703#1	♦INL	10- 36
IM7703#2	♦INL	10- 37
IM7704#1	♦INL	10- 44
IM7704#2	♦INL	10- 45
IM7706CTA	♦INL	9-109
IM7706MTA	♦INL	9-107
IM7707CTA	♦INL	9-110
IM7707MTA	♦INL	9-108
ISR0212	♦EEC	9- 19
ISR0253	♦EEC	9- 46
ISR2212	♦EEC	9- 20
ISR2253	♦EEC	9- 47
ISR2276	♦EEC	9- 21
ISR9005	♦EEC	10- 27
M58301P	MITJ	10- 20
MC1680S	♦MOTA	3- 1
MC1681L	♦MOTA	3- 2
MC1681S	♦MOTA	3- 3
MC1682S	♦MOTA	7- 1
MC1683L	♦MOTA	7- 2
MC1683S	♦MOTA	7- 3
MC1684S	♦MOTA	7- 4
MC1685L	♦MOTA	7- 5
MC1685S	♦MOTA	7- 6
MC1695L	MOTA	9- 17
MC10139P	♦MOTA	5- 4
MCM4004L	♦MOTA	5- 20
MCM4064AL	♦MOTA	3- 23
MCM10144AL	♦MOTA	3- 30
MCM14505L	♦MOTA	3- 31
MCS1004A	♦MTY	6- 15
MCS2050	♦MTY	3- 69
MD5210	MILC	5- 34
MD5225	MILC	5- 45
MD6210	MILC	5- 33
MD6225	MILC	5- 44
MD6305	MILC	5- 43
MD6510	MILC	3- 63
MF1103	♦MILC	3-105
MF1103-1	♦MILC	3-104
MF1403A	♦MILC	10- 38
MF1404A	♦MILC	10- 46
MF1405	♦MILC	10- 32
MF7105	♦MILC	10- 2
MK2002P#1	♦MOS	6- 3
MK2002P#2	♦MOS	6- 2
MK2101P	♦MOS	6- 5
MK3101P	MOS	6- 6
MK4001P	♦MOS	3- 72
ML1101	♦MILC	3- 68
ML1103	♦MILC	3-106
ML11011	♦MILC	3- 67
MM6505	♦MMI	3- 64
MP210BF	♦PLSB	9- 48
MP212BF	♦PLSB	9- 50
MP216BF	♦PLSB	9- 59
MP220BF	♦PLSB	9- 99
MP1405	♦PLSB	10- 33
MP1406	♦PLSB	9-103
MP1407	♦PLSB	9-104
MP1506	♦PLSB	9-105
MP1507	♦PLSB	9-106
N8206I	♦SIC	3- 59
N8207I	♦SIC	3- 60
N8222B	♦SIC	7- 9
N8223E	SIC	5- 5
N8224E	SIC	8- 1
N8224R	SIC	8- 2
N8225E	SIC	3- 15
N8225R	SIC	3- 16
N8226E	SIC	5- 28
N8229E	SIC	5- 29
N8270J	SIC	9- 7
N8271E	SIC	9- 8
N8271R	SIC	9- 9
N8273E	SIC	9- 42
N8273R	SIC	9- 43
N8274E	SIC	9- 38
N8274R	SIC	9- 39
N8277E	SIC	9- 37
pM1024#1	♦PHIL	5- 13
pM1024#2	♦PHIL	5- 14
pM1024A#1	♦PHIL	5- 10
pM1024A#2	♦PHIL	5- 11
pM1024AC	♦PHIL	5- 12
pM1024C	♦PHIL	5- 7
pMS16x4C	♦PHIL	3- 29
pMS256x1C	♦PHIL	3- 65
pMS1024C	♦PHIL	5- 15
PD550#1	♦GESY	4- 12
PD550#2	♦GESY	4- 23
QRO256-1	♦QDC	5- 1
QRO256-9	♦QDC	5- 2
QRO1024-1	♦QDC	5- 21
QRO1024-9	♦QDC	5- 22
RR5100#1	♦RTN	3- 24
RR5100#2	♦RTN	3- 25
RR5102#1	♦RTN	3- 26
RR5102#2	♦RTN	3- 27
RR6100	♦RTN	3- 28
S2103	♦AMI	3-107
S8204Y	SIC	5- 37
S8205Y	SIC	5- 48
S8206I	♦SIC	3- 61
S8207I	♦SIC	3- 62
S8220B	SIC	7- 7
S8223E	SIC	5- 6
S8224E	SIC	8- 3
S8224R	SIC	8- 4
S8225B	SIC	3- 17
S8225E	SIC	3- 18
S8225R	SIC	3- 19
S8226E	SIC	5- 30
S8228I	SIC	5- 52
S8229E	SIC	5- 31
S8270J	SIC	9- 10
S8271E	SIC	9- 11
S8271R	SIC	9- 12
S8273E	SIC	9- 44
S8273R	SIC	9- 45
S8274E	SIC	9- 40
S8274R	SIC	9- 41
SCL5132H	♦SSS	9- 84
SCL5132T	♦SSS	9- 85
SCL5136D	♦SSS	9- 86
SCL5136F	♦SSS	9- 87
SCL5136H	♦SSS	9- 88
SCL5136T	♦SSS	9- 89
SCL5151F	♦SSS	10- 16
SCL5151FB	♦SSS	10- 17
SCL5171D	♦SSS	10- 4
SCL5171F	♦SSS	10- 5
SCL5171H	♦SSS	10- 6
SCL5171T	♦SSS	10- 7
SCL5172D	♦SSS	10- 12
SCL5172F	♦SSS	10- 13
SCL5172H	♦SSS	10- 14
SCL5172T	♦SSS	10- 15
SCL5408D	♦SSS	9- 27
SCL5408F	♦SSS	9- 28
SCL5408H	♦SSS	9- 29
SCL5553	♦SSS	3- 66
SCL5710	♦SSS	3-101
SCL51360F	♦SSS	9- 80
SCL51360T	♦SSS	9- 81
SCL51362F	♦SSS	9- 82
SCL51362T	♦SSS	9- 83
SCL51380F	♦SSS	9- 90
SCL51380T	♦SSS	9- 91
SCL51382F	♦SSS	9- 92
SCL51382T	♦SSS	9- 93
SMA1001	TII TIIB	3- 82
SMA2001	♦TII TIIB	4- 11
SMA2002	♦TII TIIB	3-110
SN5495N	♦TII TIIB	9- 13
SN5495S	TII TIIB	9- 14
SN7488N	TII TIIB	5- 3
SN7495J	TII TIIB	9- 15
SN7495S	TII TIIB	9- 16
TL1141G	♦ALGG	9- 97
TL1160G	♦ALGG	9-102
TL1161G	♦ALGG	9- 73
TMS1101JC	TII TIIB	3- 75
TMS1101NC	TII TIIB	3- 76
TMS2400JC	TII TIIB	6- 16
TMS2400NC	TII TIIB	6- 17
TMS2404JC	TII TIIB	6- 20
TMS2602JC#1	TII TIIB	8- 11
TMS2602JC#2	TII TIIB	8- 19
TMS2602NC#1	TII TIIB	8- 12
TMS2602NC#2	TII TIIB	8- 20
TMS2603JC	TII TIIB	8- 17
TMS2603NC	TII TIIB	8- 18
TMS2604JC#1	TII TIIB	8- 9
TMS2604JC#2	TII TIIB	8- 21
TMS2604NC#1	TII TIIB	8- 10
TMS2604NC#2	TII TIIB	8- 22
TMS2800JC	TII TIIB	5- 25
TMS2800NC	TII TIIB	5- 26
TMS2900JC#1	TII TIIB	5- 35
TMS2900NC#1	TII TIIB	5- 36
TMS2900NC#2	TII TIIB	5- 17
TMS3000LR	TII TIIB	9- 65
TMS3012JC	TII TIIB	10- 9
TMS3012NC	TII TIIB	10- 10
TMS3016LR	TII TIIB	9- 53
TMS3028LC	TII TIIB	10- 11
TMS3028LR	TII TIIB	10- 8
TMS3102LC	TII TIIB	9-100
TMS3102NC	TII TIIB	9-101
TMS3103LC	TII TIIB	9- 94
TMS3103NC	TII TIIB	9- 95
TMS3304LR	TII TIIB	9- 98
TMS3314JC	TII TIIB	9- 74
TMS3314JR	TII TIIB	9- 75
TMS3314NC	TII TIIB	9- 76
TMS3404JC	TII TIIB	10- 39
TMS3404NC	TII TIIB	10- 40
TMS3412JC	♦TII TIIB	10- 29
TMS3412NC	♦TII TIIB	10- 30
TMS3413LC	♦TII TIIB	10- 41
TMS3413NC	♦TII TIIB	10- 42
TMS3414LC	♦TII TIIB	10- 47
TMS3414NC	♦TII TIIB	10- 48
TMS4000JC	TII TIIB	7- 10
TMS4000NC	TII TIIB	7- 11
TMS4003JR	TII TIIB	3- 73
TMS4003NC	TII TIIB	3- 74
TMS4177JC	TII TIIB	6- 7
TMS4177JC%	TII TIIB	6- 8
TMS4177NC%	TII TIIB	6- 9
TMS4178JC	TII TIIB	6- 10
TMS4178JC%	TII TIIB	6- 11
TMS4178NC%	TII TIIB	6- 12
TMS4179JC	TII TIIB	6- 18
TMS4179NC	TII TIIB	6- 19
UA2512	♦SOD	3- 77
UA2524	♦SOD	3-102
UA2525F#1	♦SOD	5- 16
UA2525F#2	♦SOD	5- 27
UA2525F#3	♦SOD	5- 42
UA2525F#4	♦SOD	5- 51
UA2664F	♦SOD	3- 35
UA2764F	♦SOD	3- 33
UA2864F	♦SOD	3- 36
UA3512	♦SOD	3- 78
UA3524	♦SOD	3-103
UA3664F	♦SOD	3- 37
UA3764F	♦SOD	3- 34
UA3864F	♦SOD	3- 38
UC6550#1	♦SOD	3- 39
UC6550#2	♦SOD	3- 40
UC7550#1	♦SOD	3- 41
UC7550#2	♦SOD	3- 42

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK

Obs-In this book

Δ-Registered with JEDEC by this manufacturer

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	6 TYPE No.	ORGANIZATION 1 No. WORDS	ORGANIZATION 2 BITS PER WORD	3 MODE	4 STRUCTURE CODE	5 MAX ACCESS TIME (s)	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN NEG. (V)	RATED POWER SUP. SPAN POS. (V)	INPUT LOGIC LEVELS MAX '0' (V)	INPUT LOGIC LEVELS MIN '1' (V)	MIN OUTPUT SINK CURRENT (A)	MIN OUTPUT SINK CURRENT @ OUT (V)	MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	DRAWINGS LOGIC/BLOCK	DRAWINGS OUTLINE
1	MC1680S	2	2	S	BEX	4.0nØ	5.5nØ	270m†	5.2	0.0	-1.6%	-.96				0	7	A7	FL2
2	MC1681L	2	2	S	BEX	4.0nØ	5.5nØ	300m†	5.2	0.0	-1.6%	-.96				0	7	A7a	ML5
3	MC1681S	2	2	S	BEX	4.0nØ	5.5nØ	300m†	5.2	0.0	-1.6%	-.96				0	7	A7	FL2
4	D4218	4	16	S	BTX	45n	40n	1.8	0.0	5.0	.80	2.0	40m	.45		0	7	A100	PL7
5	CD4005	16	1	s	MCX	25nØ	75n$Ø	100n†♦	0.0	10						5	C	A38	FL6
6	IM5502#1	16	1	S	BTX	20nØ	25n$Ø	325m♦	0.0	5.0	.80	2.0	40m	.45		5	C	A32	ML19
7	IM5502#2	16	1	S	BTX	20nØ	25n$Ø	325m♦	0.0	5.0	.80	2.1	40m	.45		0	7	A32	ML19
8	IM5512#1	16	1	S	BTX	20nØ	25n$Ø	325m♦	0.0	5.0	.80	2.0	20m	.45		5	C	A32	ML19
9	IM5512#2	16	1	S	BTX	20nØ	25n$Ø	325m♦	0.0	5.0	.80	2.1	20m	.45		0	7	A32	ML19
10	IM5532	16	1	S	BTX	20n	35n	325m	0.0	5.0	.80	2.0	20m	.45		0	7	A32	
11	HRAM0016-2	16	1	S	BTX	30n	60n	325m♦	0.0	5.0	.80	2.1	20m	.40		5	C	A27	TO116
12	HRAM0016-5	16	1	S	BTX	30n	60n†	325m♦	0.0	5.0	.80	2.1	20m	.40		0	7	A27	TO116
13	CD4005D	16	1	S	MCX	25nØ	75n$Ø	100n†♦	0.0	10						5	C	A38	ML16
14	93435-1-6P	16	4	S	BTX	35n	25n	590m	0.0	5.0	.90	2.0	10m	.40		5	C	A29	ML53
15	N8225E	16	4	S	BTX	50nØ	60nØ	552mØ	0.0	5.0	.80	2.0	16m	.40		0	7	A73	ML61c
16	N8225R	16	4	S	BTX	50nØ	60nØ	552mØ	0.0	5.0	.80	2.0	16m	.40		0	7	A73	FL18
17	S8225B	16	4	S	BTX	50nØ	60nØ	552mØ	0.0	5.0	.80	2.0	16m	.40		5	C	A73	ML85
18	S8225E	16	4	S	BTX	50nØ	60nØ	552mØ	0.0	5.0	.80	2.0	16m	.40		5	C	A73	ML61c
19	S8225R	16	4	S	BTX	50nØ	60nØ	552mØ	0.0	5.0	.80	2.0	16m	.40		5	C	A73	FL18
20	93403-1-4L	16	4	S	BTX	60nØ	45n$	575m	0.0	5.0	.80	2.1	16m	.45		5	C	A51	FL14
21	93403-1-7B	16	4	S	BTX	60nØ	45n$	575m	0.0	5.0	.80	2.1	16m	.45		5	C	A51	ML15a
22	93403-9-4L	16	4	S	BTX	60nØ	45n$	550m	0.0	5.0	.85	2.0	16m	.45		0	7	A51	ML14
23	MCM4064AL	16	4	S	BTX	60n	50n	550m	0.0	5.0	.80	2.0	15m	.45		0	8	A70	ML78
24	RR5100#1	16	4	S	BTX	60nØ	100nØ	450m♦Ø	0.0	5.0	.85Ø	2.0	10mØ	.45		5	C	A40	ML26
25	RR5100#2	16	4	S	BTX	60nØ	100nØ	450m♦Ø	0.0	5.0	.85Ø	2.0	10mØ	.45		5	C	A40	FL14b
26	RR5102#1	16	4	S	BTX	60nØ	100nØ	450m♦Ø	0.0	5.0	.85Ø	2.0	10mØ	.45		0	7	A40	ML26
27	RR5102#2	16	4	S	BTX	60nØ	100nØ	450m♦Ø	0.0	5.0	.85Ø	2.0	10mØ	.45		0	7	A40	FL14b
28	RR6100	16	4	S	BTX	60nØ	35n$Ø	450m♦	0.0	5.0	.85	2.0	10m	.45		0	7	A40	ML2b
29	pMS16x4C	16	4	S	HXX	400n†	100n*		15	0.0	-2.0	-9.0	1.0m	2.0		0	7	A19	ML19a
30	MCM10144AL	32	8	S	BEX	25n	15n*	500m%	5.2	0.0	-1.6	-.96	40m$			3	8	A71	ML78
31	MCM14505L	64	1	S	MCX	200n†	300n†	100u♦	0.0	10	3.5	1.5	10nΔ			5	C	A66	ML66
32	3530-4-6J	64	1	S	MPX	1.0u$†	3.5u$	225m†	27	0.0	-2.0	-9.0				5	8	A28	ML17
33	UA2764F	64	4	D	MPA	900n		160m	5.0	5.0	.80	2.6	3.5m$	2.4	50kΔ	5	C	A44	FL7a
34	UA3764F	64	4	D	MPA	900n		160m	5.0	5.0	.80	2.6	3.5m$	2.4	50kΔ	2	7	A44	FL7a
35	UA2664F	64	4	S	MPA	1.0u♦	400n$	480mØ	5.0	5.0	.80	2.4	3.2m$	2.8		5	C	A43	FL7a
36	UA2864F	64	4	S	MPA	1.0u♦	400n$	480mØ	5.0	5.0	.80	2.4	3.2m$	2.8		5	C	A44	FL7a
37	UA3664F	64	4	S	MPA	1.0u♦	400n$	480mØ	5.0	5.0	.80	2.4	3.2m$	2.8		2	7	A43	FL7a
38	UA3864F	64	4	S	MPA	1.0u♦	400n$	480mØ	5.0	5.0	.80	2.4	3.2m$	2.8		2	7	A44	FL7a
39	UC6550#1	64	4	S	MXX	900n		710m	15	5.0	.60	2.7				5	C	A41	FL7
40	UC6550#2	64	4	S	MXX	900n		710m	15	5.0	.60	2.7				5	C	A41a	ML24
41	UC7550#1	64	4	S	MXX	900n		710m	15	5.0	.60	2.7				2	7	A41	FL7
42	UC7550#2	64	4	S	MXX	900n		710m	15	5.0	.60	2.7				2	7	A41a	ML24
43	08C25	64	8	S	BEXØ	40n	80n	13	5.2	0.0	-1.5	-.90	22m#%	1.8		1▼	5		PL5a
44	15C22	64	8	S	BTXØ	125n	150n	9.0	0.0	5.0	.80†	2.0†	15m#	5.0		1▼	5		PL5a
45	08C24	64	9	S	BEXØ	40n	80n	14	5.2	0.0	-1.5	-.90	22m#%	1.8		1▼	5		PL5a
46	15C17	64	9	S	BTXØ	125n	150n	9.5	0.0	5.0	.80†	2.0†	15m#	5.0		1▼	5		PL5a
47	08C19	64	16	S	BEXØ	40n	80n	22	5.2	0.0	-1.5	-.90	22m#%	1.8		1▼	5		PL5a
48	15C09	64	16	S	BTXØ	125n	150n	16	0.0	5.0	.80†	2.0†	15m#	5.0		1▼	5		PL5a
49	08C13	64	18	S	BEXØ	40n	80n	23	5.2	0.0	-1.5	-.90	22m#%	1.8		1▼	5		PL5a
50	15C19	64	18	S	BTXØ	125n	150n	17	0.0	5.0	.80†	2.0†	15m#	5.0		1▼	5		PL5a
51	08C44	128	8	S	BEXØ	40n	80n	21	5.2	0.0	-1.5	-.90	22m#%	1.8		1▼	5		PL5a
52	15C21	128	8	S	BTXØ	125n	150n	11	0.0	5.0	.80†	2.0†	15m#	5.0		1▼	5		PL5a
53	08C42	128	9	S	BEXØ	40n	80n	22	5.2	0.0	-1.5	-.90	22m#%	1.8		1▼	5		PL5a
54	15C16	128	9	S	BTXØ	125n	150n	12	0.0	5.0	.80†	2.0†	15m#	5.0		1▼	5		PL5a
55	08C53	128	16	S	BEXØ	40n	80n	32	5.2	0.0	-1.5	-.90	22m#%	1.8		1▼	5		PL5
56	15C24	128	16	S	BTXØ	125n	150n	21	0.0	5.0	.80†	2.0†	15m#	5.0		1▼	5		PL5a
57	08C41	128	18	S	BEXØ	40n	80n	35	5.2	0.0	-1.5	-.90	22m#%	1.8		1▼	5		PL5
58	15C18	128	18	S	BTXØ	125n	150n	22	0.0	5.0	.80†	2.0†	15m#	5.0		1▼	5		PL5a
59	N8206I	256	1	S	BTD	35n†	60n	500m	0.0	5.0	.85	2.0§	16n	.45		0	7	A76	ML61b
60	N8207I	256	1	S	BTD	35n†	60n	500m	0.0	5.0	.85	2.0	16m	.45		0	7	A76	ML61b
61	S8206I	256	1	S	BTD	35n†	60n	500m	0.0	5.0	.85	2.0§	16m	.45		5	C	A76	ML61b
62	S8207I	256	1	S	BTD	35n†	60n	500m	0.0	5.0	.85	2.0	16m	.45		5	C	A76	ML61b
63#	MD6510	256	1	S	BTD	85n	200n	450m	0.0	5.2	.85	2.0	10m	.45		0	7	A54	TO116
64	MM6505	256	1	S	BTX	120nØ	80nØ	2.0m♦%	0.0	5.0	.45%		15m	.45		0	8	A53	ML55
65	pMS256x1C	256	1	S	HXX	1.0u†		400m†	13	0.0	-2.0	-9.0				0	7		
66	SCL5553	256	1	S	MCX	250nØ	200nØ	1.0uØ♦	0.0	15						5	C	A48	FL12
67	ML11011	256	1	S	MPG	1.0uØ	400n$	2.0m%	7.0	5.0	.200†	5.0†	3.0 Ø	.45		6	8	A1	ML10
68	ML1101	256	1	S	MPG	1.5uØ	400n$	2.0m%	7.0	5.0	.200†	5.0†	3.0 Ø	.45		6	8	A1	ML10
69	MCS2050	256	1	S	MPN	800nØ		300m	9.0	5.0	.40	3.2	2.0m	.25		0	8	A85	ML⧄
70	GER11011	256	1	S	MPR	1.0u	700n%	40mØ	10	5.0	.45%	3.5	3.0	.45		0	8	A1	ML4
71	GER1101	256	1	S	MPR	1.5u	700n%	400mØ	10	5.0	.45%	3.5	3.0	.45		0	8	A1	ML4
72	MK4001P	256	1	S	MPX	50nØ	30nØ	250m†	18	0.0	-2.0	-16	10uΔ	-16		5	8	A26	ML20
73	TMS4003JR	256	1	S	MPX	60nØ	30n$	500m	18	0.0	-2.0	-16				5	8	A26	ML14a
74	TMS4003NC	256	1	S	MPX	60nØ	30n$	500m	18	0.0	-2.0	-16				5	8	A26	ML80
75	TMS1101JC	256	1	S	MPX	750nØ	400n$†	330m	0.0	5.0	.60♦	3.5	1.6mØ	.40		2	8	A74	ML82
76	TMS1101NC	256	1	S	MPX	750nØ	400n$†	330m	0.0	5.0	.60♦	3.5	1.6mØ	.40		2	8	A74	ML48a
77	UA2512	256	2	S	MPA	1.0uØ	400n$	1.0m%†	7.0	5.0	.80	2.4	3.2mØ	.40		5	C	A42	FL8
78	UA3512	256	2	S	MPA	1.0uØ	400n$	1.0m%†	7.0	5.0	.80	2.4	3.2mØ	.40		2	7	A42	FL8
79	IM5563CDE	256	4	S	BTX	40n	45n	600m	0.0	5.0	.80	2.0	16m	.45		0	7	A30	ML1
80	08C52	256	8	S	BEXØ	40n	80n	31	5.2	0.0	-1.5	-.90	22m#%	1.8		1▼	5		PL5
81	15C41	256	8	S	BTXØ	125n	150n	21	0.0	5.0	.80†	2.0†	15m#	5.0		1▼	5		PL5a
82	SMA1001	256	8	S	MXN	25n†Ø	50n$†	1.0 ♦	0.0	12	10*	.40#				0	7	A64	ML74
83	08C51	256	9	S	BEXØ	40n	80n	3.4	5.2	0.0	-1.5	-.90	22m#%	1.8		1▼	5		PL5
84	15C40	256	9	S	BTXØ	125n	150n	22	0.0	5.0	.80†	2.0†	15m#	5.0		1▼	5		PL5a
85	08C50	256	16	S	BEXØ	40n	80n	55	5.2	0.0	-1.5	-.90	22m#%	1.8		1▼	5		PL5
86	15C57	256	16	S	BTXØ	125n	150n	30	0.0	5.0	.80†	2.0†	15m#	5.0		1▼	5		PL5
87	08C49	256	18	S	BEXØ	40n	80n	60	5.2	0.0	-1.5	-.90	22m#%	1.8		1▼	5		PL5
88	15C56	256	18	S	BTXØ	125n	150n	34	0.0	5.0	.80†	2.0†	15m#	5.0		1▼	5		PL5
89	30C32	512	8	D	HNCØ	220n	350n	9.1	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5a
90	08C16	512	8	S	BEXØ	40n	80n	31	5.2	0.0	-1.5	-.90	22m#%	1.8		1▼	5		PL5
91	15C55	512	8	S	BTXØ	125n	150n	27	0.0	5.0	.80†	2.0†	15m#	5.0		1▼	5		PL5
92	30C31	512	9	D	HNCØ	220m	350n	9.3	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5a
93	08C14	512	9	S	BEXØ	40n	80n	34	5.2	0.0	-1.5	-.90	22m#%	1.8		1▼	5		PL5
94	15C54	512	9	S	BTXØ	125n	150n	30	0.0	5.0	.80†	2.0†	15m#	5.0		1▼	5		PL5
95	30C30	512	16	D	HNCØ	220n	350n	14	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5a
96	08C22	512	16	S	BEXØ	40n	80n	55	5.2	0.0	-1.5	-.90	22m#%	1.8		1▼	5		PL5
97	15C47	512	16	S	BTXØ	125n	150n	50	0.0	5.0	.80†	2.0†	15m#	5.0		1▼	5		PL5
98	30C29	512	18	D	HNCØ	220m	350n	14	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5a
99	08C05	512	18	S	BEXØ	40n	80n	60	5.2	0.0	-1.5	-.90	22m#%	1.8		1▼	5		PL5
100	15C53	512	18	S	BTXØ	125n	150n	55	0.0	5.0	.80†	2.0†	15m#	5.0		1▼	5		PL5
101	SCL5710	1024	1	D	MNG	200nØ	300nØ	100u†	0.0	15					100 Δ			A83	ML⧄
102	UA2524	1024	1	D	MPA	280n	500n	320m	0.0	16	1.0	15	1.0uΔ	0.0	500 Δ	5	C	A2	ML25
103	UA3524	1024	1	D	MPA	280n	500n	320m	0.0	16	1.0	15	1.0uΔ	0.0	500 Δ	2	7	A2	ML25
104#	MF1103-1	1024	1	D	MPG	150n*	340n*	1.0 ⧄	0.0	19	1.0	18	1.1m♦Ø	.115	1.0kΔ	0	5	A2	ML3
105#	MF1103	1024	1	D	MPG	300n*	580n*	1.0 ⧄	0.0	16	1.0	15	600u♦Ø	.060	500 Δ	0	7	A2	ML3
106	ML1103	1024	1	D	MPG	300n	580n	400m⧄	0.0	16	15	1.0	600u♦		500 Δ	0	7	A2	ML3
107	S2103	1024	1	D	MPG	300n*	580n*	400m	0.0	16	1.0	15	1.0uΔ	0.0		0	7	A62	ML73
108	GER1103	1024	1	D	MPR	300n	580n	400m⧄	0.0	16	1.0	15	1.0uΔ	0.0	500 Δ	0	7	A2	ML⧄
109	91600111	1024	1	D	MPX	350n	860n*	75u%	18	0.0	2.0	17	3.0m♦		500 Δ	5	C	A15	ML8
110	SMA2002	1024	2	S	MXX	125n†Ø	150n†	1.3 †Ø	5.0	5.0	.80	2.0	16m	.40		0	7	A65a	ML75a

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. READ-WRITE MEMORIES (RAMS)

IN ORDER OF (1)No.WORDS(2)No.BITS/WORD
(3)MODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	6 TYPE No.	ORGANIZATION 1 No. WORDS	2 BITS PER WORD	3 MODE	4 STRUCTURE CODE	5 MAX ACCESS TIME	MAX WRITE CYCLE TIME	MAX OPER. POWER DISS.	RATED POWER SUP. SPAN NEG.	POS.	INPUT LOGIC LEVELS MAX '0'	MIN '1'	MIN OUTPUT SINK CURRENT	@ OUT	MIN CLOCK FREQ.	OPER. TEMP. RANGE CODE -	+	DRAWINGS LOGIC/ BLOCK	OUTLINE
						(s)	(s)	(W)	(V)	(V)	(V)	(V)	(A)	(V)	(Hz)				
1	30C01	1024	8	D	HNC0	220n	350n	10	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5a
2	15C51	1024	8	S	BTX0	125n	150n	48	0.0	5.0	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
3	30C02	1024	9	D	HNC0	220n	350n	10	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5a
4	15C52	1024	9	S	BTX0	125n	150n	55	0.0	5.0	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
5	811-01	1024	10	S	BTX0	70n†	75n	28	0.0	5.0	2.4	.40				0	6	A55	
6	30C25	1024	16	D	HNC0	220n	350n	16	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5a
7	15C12	1024	16	S	BTX0	125n	150n	50	0.0	5.0	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
8	30C15	1024	18	D	HNC0	220n	350n	16	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5a
9	15C07	1024	18	S	BTX0	125n	150n	55	0.0	5.0	.80†	2.0†	15m#	5.0		1▼	5		PL5
10	CM1801	2048	1	D	MPG	450n†	800nΔ*		13	5.0	1.0	3.5	1.0uΔ	0.0	500 Δ	0	7	A23	ML0
11	SMA2001	2048	1	S	MXX	125n†0	150n†	1.3 †0	5.0	5.0	.80	2.0	16m	.40		0	7	A65	ML75
12	PD550#1	2048$	2	S	HXX	100n†	125n†	2.0 †	0.0	5.0	-.35	-.08				0	7	A6	FL1
13	25C16	2048	8	D	HNC0	150n	275n	15	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
14	30C50	2048	8	D	HNC0	220n	350n	15	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
15	15C06	2048	8	S	BTX0	125n	150n	48	0.0	5.0	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
16	25C15	2048	9	D	HNC0	150n	275n	16	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
17	30C91	2048	9	D	HNC0	220n	350n	16	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
18	15C10	2048	9	S	BTX0	125n	150n	55	0.0	5.0	.80†	2.0†	15m#	5.0		1▼	5		PL5
19	25C14	2048	16	D	HNC0	150n	275n	23	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
20	30C83	2048	16	D	HNC0	220n	350n	23	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
21	25C13	2048	18	D	HNC0	150n	275n	26	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
22	30C89	2048	18	D	HNC0	220n	350n	25	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
23	PD550#2	4096$	1	S	HXX	100n†	125n†	2.0 †	0.0	5.0	-.35	-.08				0	7	A6	FL1
24	25C03	4096	8	D	HNC0	150n	275n	25	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
25	30C67	4096	8	D	HNC0	220n	350n	25	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
26	25C06	4096	9	D	HNC0	150n	275n	28	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
27	30C68	4096	9	D	HNC0	220n	350n	27	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
28	811-02	4096	10	D	MXX0	350n	500n	26	5.0	20	2.4	.40				0	6	A56	
29	25C08	4096	16	D	HNC0	150n	275n	39	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
30	30C71	4096	16	D	HNC0	220n	350n	39	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
31	811-03#1	4096	16	D	MXG0	600n	800n	27	5.0	20			2.7	5.0		0	6	A57	
32	25C10	4096	18	D	HNC0	150n	275n	43	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
33	30C90	4096	18	D	HNC0	220n	350n	43	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
34	25C02	8192	8	D	HNC0	150n	275n	39	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
35	30C82	8192	8	D	HNC0	220n	350n	39	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
36	811-03#2	8192	8	D	MXG0	600n	800n	27	5.0	20			2.7	5.0		0	6	A57	
37	25C05	8192	9	D	HNC0	150n	275n	43	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
38	30C66	8192	9	D	HNC0	220n	350n	43	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
39	25C07	8192	16	D	HNC0	150n	275n	39	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
40	30C26	8192	16	D	HNC0	220n	350n	39	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
41	25C09	8192	18	D	HNC0	150n	275n	43	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
42	30C06	8192	18	D	HNC0	220n	350n	43	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
43	25C01	16384	8	D	HNC0	150n	275n	39	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
44	30C13	16384	8	D	HNC0	220n	350n	39	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
45	25C04	16384	9	D	HNC0	150n	275n	43	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5
46	30C27	16384	9	D	HNC0	220n	350n	43	6.0	10	.80†	2.0†	15m#	5.0	167kΔ	1▼	5		PL5

3. READ ONLY MEMORIES (ROMS)

IN ORDER OF (1)No.WDS(2)No.BITS/WD(3)OP.MODE PRG.CODE(4)STRUCT.(5)MAX ACC.TIME(6)TYPE No.

LINE No.	6 TYPE No.	ORGANIZATION 1 No. WORDS	2 BITS PER WORD	3 OP MODE PROG CODE	4 STRUC TURE CODE	5 MAX ACCESS TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN NEG. (V)	POS. (V)	INPUT LOGIC LEVELS MAX '0' (V)	MIN '1' (V)	MIN OUTPUT SINK CURRENT (A)	@ OUT (V)	OPER. TEMP. RANGE CODE -	+	GENERAL DESCRIPTION	DRAWINGS LOGIC/ BLOCK	OUTLINE
1	QRO256-1	32	8	SC	BTX	50n	400m	0.0	7.0	.80	2.0	10m	.40	5	C		B20	ML15
2	QRO256-9	32	8	SC	BTX	50n	400m	0.0	7.0	.80	2.0	10m	.40	0	7		B20	ML15
3	SN7488N	32	8	SC	BTX	50nØ	240m†	0.0	5.0	.80	2.0	12m	.40	0	7		B21	ML48
4	MC10139P	32	8	SE	BEX	17n†	500m†	5.2	0.0	-1.4	-1.1			0	7		B23	ML39
5	N8223E	32	8	SE	BTX	50nØ	400mØ	0.0	5.0	.80	2.0	9.6m	.40	0	7		B67	ML61c
6	S8223E	32	8	SE	BTX	50nØ	400mØ	0.0	5.0	.40%		9.6m	.40	5	C		B67	ML61c
7	pM1024C	128	8	DC	MXX	2.0u	100m	25	0.0	-3.0	-9.0			0	7			FL3a
8	IM7602CDG	128	8	SC	MPX	750n	360mØ	0.0	12	10*	4.0#	3.0m	3.0	5	C		B2a	ML27
9	IM7602MDG	128	8	SC	MPX	1.0u	360mØ	0.0	12	10*	4.0#	3.0m	3.0	2	7		B2a	ML27
10	pM1024A#1	128	8	SC	MXX	1.0u	100m	25	0.0	-3.0	-9.0			5	C			
11	pM1024A#2	128	8	SC	MXX	1.0u	100m	25	0.0	-3.0	-9.0			5	C			FL3a
12	pM1024AC	128	8	SC	MXX	1.0u	100m	25	0.0	-3.0	-9.0			0	7			
13	pM1024#1	128	8	SC	MXX	2.0u	100m	25	0.0	-3.0	-9.0			5	C			
14	pM1024#2	128	8	SC	MXX	2.0u	100m	25	0.0	-3.0	-9.0			5	C			FL3a
15	pMS1024C	128	8	SC	MXX	4.0u	250m	25	0.0	-2.0	-9.0			0	7			
16	UA2525F#1	128	8	5C	MXX	900n	360m	10	0.0	.80♦	2.7	1.6m	.40	5	C		B9	FL3a
17	TMS2900NC#2	128$	10	SC	MXX	400n	400m	12	5.0	1.0	3.5§	3.2m	.80	2	8		B66	ML72
18	HROM1256-2	256	1	SE	BTX	50n	525m♦	0.0	5.0	.80	2.0§	16m	.45	0	7		B16	ML15
19	HROM1256-5	256	1	SE	BTX	50n	525m♦	0.0	5.0	.80	2.0§	16m	.45	5	C		B16	ML15
20	MCM4004L	256	4	SC	BTX	50n	6.0m%	0.0	5.0	.45%	2.5	12m	.45	0	7		E12	ML5
21	QRO1024-1	256	4	SC	BTX	90n	450m†	0.0	7.0	.80	2.0	16m	.40	5	C		B34	ML15
22	QRO1024-9	256	4	SC	BTX	90n	450m†	0.0	7.0	.80	2.0	16m	.40	0	7		B34	ML15
23	IM7601CDE	256	4	SC	MPX	750n	360mØ	0.0	12	10*	4.0#	3.0m	3.0	5	C		B2	ML1
24	IM7601MDE	256	4	SC	MPX	1.0u	360mØ	0.0	12	10*	4.0#	3.0m	3.0	2	7		B2	ML1
25	TMS2800JC	256	4	SC	MXX	900nØ	200m♦†	24	0.0	-3.0	-8.0			2	8		B22	ML37
26	TMS2800NC	256	4	SC	MXX	900nØ	170m†Ø	12	12	-3.0	-8.0			2	8		B22	ML48a
27	UA2525F#2	256	4	SC	MXX	900n	360m	10	0.0	.80♦	2.7	1.6m	.40	5	C		B9	FL3a
28	N8226E	256	4	SE	BTX	60n	850m	0.0	5.0	.85	2.0	16m	.50	0	7		B68	ML61c
29	N8229E	256	4	SE	BTX	60n	850m	0.0	5.0	.85	2.0§	16m	.50	0	7		B68	ML61c
30	S8226E	256	4	SE	BTX	60n	850m	0.0	5.0	.85	2.0	16m	.50	5	C		B68	ML61c
31	S8229E	256	4	SE	BTX	60n	850m	0.0	5.0	.85	2.0§	16m	.50	5	C		B68	ML61c
32	IM5603MPE	256	4	SE	BTX	70nØ	500m	0.0	5.0	.85	2.0	20m	.40	5	C		B10	ML89
33#	MD6210	256	5	SC	BTC	50nØ	625m	0.0	5.5	.85	2.0	15m	.45	0	7		B52	ML10a
34#	MD5210	256	5	SC	BTC	60nØ	625m	0.0	5.5	.80	2.0	10m	.40	5	C		B52	ML10a
35	TMS2900JC#1	256$	5	SC	MXX	400n	400m	12	5.0	1.0	3.5§	3.2m	.80	2	8		B66a	ML47d
36	TMS2900NC#1	256$	5	SC	MXX	400n	400m	12	5.0	1.0	3.5§	3.2m	.80	2	8		B66a	ML72
37	S8204Y	256	8	SC	BTX	60n	895m	0.0	5.0	.85	2.0§	9.6m	.45	5	C		B32a	ML21b
38	IM7603CDG	256	8	SC	MPX	750n	380mØ	0.0	12	10*	4.0#	3.0m	3.0	0	7		B3	ML27
39	IM7603MDG	256	8	SC	MPX	1.0u	380mØ	0.0	12	10*	4.0#	3.0m	3.0	5	C		B3	ML27
40	IM7604MDG	256	10	SC	MPX	1.0u	430mØ	0.0	12	10*	4.0#	4.0	3.0	5	C		B3a	ML27
41	IM7605MDG	256	10	SC	MPX	1.0u	430mØ	0.0	12	10*	4.0#	4.0	3.0	5	C		B3b	ML27
42	UA2525F#3	512	2	SC	MXX	900n	360m	10	0.0	.80♦	2.7	1.6m	.40	5	C		B9	FL3a
43#	MD6305	512	4	SE	BTC	60nØ	625m	0.0	5.5	.85	2.0	15m	.45	0	7		B51a	ML10a
44#	MD6225	512	5	SC	BTC	75nØ	685m	0.0	5.25	.85	2.0	15m	.45	0	7			ML3
45#	MD5225	512	5	SC	BTC	100nØ	685m	0.0	5.5	.80	2.0	10m	.40	5	C			ML3
46	IM7604CDG	512	5	SC	MPX	750n	430mØ	0.0	12	10*	4.0#	4.0	3.0	2	7		B3a	ML27
47	IM7605CDG	512	5	SC	MPX	750n	430mØ	0.0	12	10*	4.0#	4.0	3.0	2	7		B3b	ML27
48	S8205Y	512	8	SC	BTX	60n	895m	0.0	5.0	.85	2.0§	9.6m	.45	5	C		B32	ML21b
49	GER542W1#4	512$	8	SC	MXR	500n†	350m†	12	5.0	1.0Ø♦	4.0						B8	ML30
50	809-01#1	512	16	SE	BTXØ	80n	1.8	0.0	5.0	.40	2.4			0	6		B56	
51	UA2525F#4	1024	1	SC	MXX	900n	360m	10	0.0	.80♦	2.7	1.6m	.40	5	C		B9	FL3a
52	S8228I	1024	4	SC	BTX	90n	750m	0.0	5.0	.85	2.0	11m	.45	5	C		B29	ML61b
53	GER542W1#3	1024$	4	SC	MXR	500n†	350m†	12	5.0	1.0Ø♦	4.0						B8a	ML30
54	809-01#2	1024	8	SE	BTXØ	80n	1.8	0.0	5.0	.40	2.4			0	6		B56	
55	GER542W1#2	2048$	2	SC	MXR	500n†	350m†	12	5.0	1.0Ø♦	4.0						B8b	ML30
56	GER542W1#1	4096$	1	SC	MXR	500n†	350m†	12	5.0	1.0Ø♦	4.0						B8c	ML30

4. CHARACTER GENERATORS

IN ORDER OF (1)USE CODE(2)No.CHARACTERS (3)No.BITS/CHAR(4)No.OUT(5)STRUCT(6)TYPE No.

LINE No.	6 TYPE No.	1 USE CODE	2 No. CHARACTERS	3 BITS PER CHAR.	4 No. OUTPUTS	5 STRUCTURE CODE	MAX ACCESS TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN NEG. (V)	RATED POWER SUP. SPAN POS. (V)	INPUT LOGIC LEVELS MAX '0' (V)	INPUT LOGIC LEVELS MIN '1' (V)	MIN OUTPUT SINK CURRENT (A)	MIN OUTPUT SINK CURRENT @ OUT (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	DRAWINGS LOGIC/ BLOCK	DRAWINGS OUTLINE
1	1311	DAS	64	35	5	MPG	400n	560m	9.0	5.0	-4.2	-2.0	1.6m	.45	0	7	C23	
2	MK2002P#2	SAC	32 $	70$	14	MPX	700nØ	435m♦Ø	14	0.0	0.0†	-11#			2	8	C10	ML29
3	MK2002P#1	SAC	64 $	35$	7	MPX	700nØ	435m♦Ø	14	0.0	0.0†	-11#			2	8	C10	ML29
4	GER543W1	SAR	64	35	5	MPX	500n†Ø	350m†Ø	5.0	5.0	1.0♦Ø	4.0					C20	ML30
5	MK2101P	SAR	64	35	5	MPX	550nØ	600mØ	15	12	-2.0*	-10#	6.0	-12	2	8	C11	ML22
6	MK3101P	SAR	64	35	5	MPX	550nØ	600m♦Ø	15	12	2.0*	-10#	6.0m	-12	2	8	C13	ML21
7	TMS4177JCØ	SAR	64 ⧄	35	7	MPX	700nØ	400mØ	28	0.0	-3.0	-9.0			2	8	C16	ML49a
8	TMS4177JC%	SAR	64 ⧄	35	7	MPX	700nØ	400mØ	28	0.0	-3.0	-9.0			2	8	C16	ML49a
9	TMS4177NC%	SAR	64 ⧄	35	7	MPX	700nØ	400mØ	28	0.0	-3.0	-9.0			2	8	C16	ML83
10	TMS4178JCØ	SAR	64 ⧄	35	7	MPX	700nØ	400mØ	28	0.0	-3.0	-9.0			2	8	C16	ML49a
11	TMS4178JC%	SAR	64 ⧄	35	7	MPX	700nØ	400mØ	28	0.0	-3.0	-9.0			2	8	C16	ML49a
12	TMS4178NC%	SAR	64 ⧄	35	7	MPX	700nØ	400mØ	28	0.0	-3.0	-9.0			2	8	C16	ML83
13	1312	SAS	64	35	5	MPG	900n	700m	9.0	5.0	-4.2	-2.0	1.6m	.45	0	7	C24	
14	1313	SAS	64	35	5	MPG	900n	700m	9.0	5.0	-4.2	-2.0	1.6m	.45	0	7	C25	ML2a
15	MCS1004A	SCC	64	35	7	MPC	700nØ	350mØ	28	0.0	-3.0	-9.0			2	8	C28a	
16	TMS2400JC	SCR	64	35	5	MPX	1.2uØ	450m†Ø	28	0.0	-3.0	-9.0	500uØ	-.70	2	8	C6	ML49a
17	TMS2400NC	SCR	64	35	5	MPX	1.2uØ	450m†Ø	28	0.0	-3.0	-9.0	500uØ	-.70	2	8	C6	ML83
18	TMS4179JC	SEC	64	35	7	MPX	700nØ	400mØ	28	0.0	-3.0	-9.0			2	8	C16	ML49
19	TMS4179NC	SEC	64	35	7	MPX	700nØ	400mØ	28	0.0	-3.0	-9.0			2	8	C16	ML83
20	TMS2404JC	SER	66	35	5	MPX	1.0u	350m†♦	12	12	-3.0	-9.0			2	8	C6	ML49

5. CONTENT ADDRESSABLE MEMORIES (CAMS)

IN ORDER OF (1)No.WDS(2)No.BITS/WD(3)MODE (4)STRUCT.(5)MAX.SEARCH TIME(6)TYPE No.

LINE No.	6 TYPE No.	ORGANIZATION 1 No. WORDS	2 BITS PER WORD	3 MODE	4 STRUCTURE CODE	5 MAX SEARCH TIME (s)	MAX ACCESS TIME (s)	MAX WRITE CYCLE TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN NEG. (V)	POS. (V)	INPUT LOGIC LEVELS MAX '0' (V)	MIN '1' (V)	MIN OUTPUT SINK CURRENT (A)	@ OUT (V)	OPER. TEMP. RANGE CODE -	+	DRAWINGS LOGIC/ BLOCK	OUTLINE
1	MC1682S	2	2	S	BEX	4.0nØ		5.5nØ	390mØ	5.2	0.0	-1.6%	-.96			0	7	D2	FL2
2	MC1683L	2	2	S	BEX	4.0nØ		5.5nØ	470mØ	5.2	0.0	-1.6%	-.96			0	7	D2a	ML5
3	MC1683S	2	2	S	BEX	4.0nØ		5.5nØ	470mØ	5.2	0.0	-1.6%	-.96			0	7	D2	FL2
4	MC1684S	2	2	S	BEX	4.0nØ		5.5nØ	390mØ	5.2	0.0	-1.6%	-.96			0	7	D3	FL2
5	MC1685L	2	2	S	BEX	4.0nØ		5.5nØ	470mØ	5.2	0.0	-1.6%	-.96			0	7	D3a	ML5
6	MC1685S	2	2	S	BEX	4.0nØ		5.5nØ	470mØ	5.2	0.0	-1.6%	-.96			0	7	D3	FL2
7	S8220B	4	2	S	BTX	30n	60n		590m	0.0	5.0	.40%		20m	.40	0	7	D4	ML85
8	8222	4	2	S	BTX	50n†	35n†	65n†§	300m	0.0	5.0	.40%		125uΔ	2.0♦	5	C	D4	
9	N8222B	4	2	S	BTX	50n†	35n†	65n†§	300m	0.0	5.0	.40%		125uΔ	2.0♦	0	7	D4	
10	TMS4000JC	16	8	S	MPX	80n	60nØ	250n†	200mØ	12	0.0					2	8	D5	ML14a
11	TMS4000NC	16	8	S	MPX	80n	60nØ	250n†	200mØ	12	0.0					2	8	D5	ML80

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

6. CODE CONVERTERS

IN ORDER OF(1)FROM CODE(2)TO CODE(3)No.WORDS (4)No.INPUT BITS(5)No.OUTPUT BITS(6)TYPE No.

LINE No.	6 TYPE No.	CONVERSION CODE 1 FRM	CONVERSION CODE 2 TO	3 No. WORDS	No. CODE BITS 4 IN	No. CODE BITS 5 OUT	MODE	STRUCTURE CODE	MAX ACCESS TIME (s)	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN NEG. (V)	RATED POWER SUP. SPAN POS. (V)	INPUT LOGIC LEVELS MAX '0' (V)	INPUT LOGIC LEVELS MIN '1' (V)	MIN OUTPUT SINK CURRENT (A)	MIN OUTPUT SINK CURRENT @ OUT (V)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	DRAWINGS LOGIC/ BLOCK	DRAWINGS OUTLINE
1	N8224E	1	2	32	7	8	S	BTX	50n$	400m	0.0	5.0	.40%		9.6m	.40	0	7	B67	ML61c
2	N8224R	1	2	32	7	8	S	BTX	50n$	400m	0.0	5.0	.40%		9.6m	.40	0	7	B67	FL18
3	S8224E	1	2	32	7	8	S	BTX	50n$	400m	0.0	5.0	.40%		9.6m	.40	5	C	B67	ML61c
4	S8224R	1	2	32	7	8	S	BTX	50n$	400m	0.0	5.0	.40%		9.6m	.40	5	C	B67	FL18
5	HROM1024-2-0004	1	2	256	8	4	S	BTX	60nØ	650mØ	0.0	5.0	.85	2.0	15m	.45	5	C	E11	ML15
6	HROM1024-2-0005	1	2	256	8	4	S	BTX	60nØ	650mØ	0.0	5.0	.85	2.0	15m	.45	5	C	E11	ML15
7	HROM1024-5-0004	1	2	256	8	4	S	BTX	60nØ	650mØ	0.0	5.0	.85	2.0	15m	.45	0	7	E11	ML15
8	HROM1024-5-0005	1	2	256	8	4	S	BTX	60nØ	650mØ	0.0	5.0	.85	2.0	15m	.45	0	7	E11	ML15
9	TMS2604JC#1	1	2	512	7	8	S	MXX	1.0uØ	180m†	24	0.0	-3.0	-8.0			2	8	B11a	ML47d
10	TMS2604NC#1	1	2	512	7	8	S	MXX	1.0uØ	180m†	24	0.0	-3.0	-8.0			2	8	B11a	ML72
11	TMS2602JC#1	1%	3	512	7	8☒	S	MXX	1.0uØ	180m†	24	0.0	-3.0	-8.0			2	8	B11a	ML47d
12	TMS2602NC#1	1%	3	512	7	8☒	S	MXX	1.0uØ	180m†	24	0.0	-3.0	-8.0			2	8	B11a	ML72
13	HROM1024-2-0002	2	1	256	8	4	S	BTX	60nØ	650mØ	0.0	5.0	.85	2.0	15m	.45	5	C	E11	ML15
14	HROM1024-2-0003	2	1	256	8	4	S	BTX	60nØ	650mØ	0.0	5.0	.85	2.0	15m	.45	5	C	E11	ML15
15	HROM1024-5-0002	2	1	256	8	4	S	BTX	60nØ	650mØ	0.0	5.0	.85	2.0	15m	.45	0	7	E11	ML15
16	HROM1024-5-0003	2	1	256	8	4	S	BTX	60nØ	650mØ	0.0	5.0	.85	2.0	15m	.45	0	7	E11	ML15
17	TMS2603JC	2	1	256	8	8☒	S	MXX	1.0uØ	180m†	24	0.0	-3.0	-8.0			2	8	B11a	ML47d
18	TMS2603NC	2	1	256	8	8☒	S	MXX	1.0uØ	180m†	24	0.0	-3.0	-8.0			2	8	B11a	ML72
19	TMS2602JC#2	3%	1	512	7	8☒	S	MXX	1.0uØ	180m†	24	0.0	-3.0	-8.0			2	8	B11a	ML47d
20	TMS2602NC#2	3%	1	512	7	8☒	S	MXX	1.0uØ	180m†	24	0.0	-3.0	-8.0			2	8	B11a	ML72
21	TMS2604JC#2	3	2	512	7	8	S	MXX	1.0uØ	180m†	24	0.0	-3.0	-8.0			2	8	B11a	ML47d
22	TMS2604NC#2	3	2	512	7	8	S	MXX	1.0uØ	180m†	24	0.0	-3.0	-8.0			2	8	B11a	ML72

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

7. SHIFT REGISTERS

IN ORDER OF(1)No.BITS/REG(2)No.REGISTERS
(3)OP.CODE(4)MAX W/C FREQ(5)STRUCT(6)TYPE No

LINE No.	6 TYPE No.	ORGANIZATION 1 BITS PER REGISTER	ORGANIZATION 2 No. REGS	3 OPER. CODE	4 MAX WORST CASE FREQ. (Hz)	5 STRUCTURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN NEG. (V)	RATED POWER SUP. SPAN POS. (V)	INPUT LOGIC LEVELS MAX '0' (V)	INPUT LOGIC LEVELS MIN '1' (V)	MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT (A)	MIN OUTPUT SINK CURRENT @ OUT (V)	MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	DRAWINGS LOGIC/ BLOCK	DRAWINGS OUTLINE
1	9200-1-4L	4	1	PPS	10M†	BTX	105m	0.0	5.0	.80	1.4	65n	2.1m	.30		5	C	F2	FL14
2	9200-1-7B	4	1	PPS	10M†	BTX	105m	0.0	5.0	.80	1.4	65n	2.1m	.30		5	C	F2	ML15a
3	9200-9-4L	4	1	PPS	10M†	BTX	210m	0.0	5.0	.75	1.6	65n	2.3m	.35		0	7	F2	FL14
4	9200-9-7B	4	1	PPS	10M†	BTX	110m	0.0	5.0	.75	1.6	65n	2.3m	.35		0	7	F2	ML15a
5#	9300-1-3L	4	1	PPS	15M	BTX	300m†	0.0	5.0	.90	1.4	45nØ	8.5m	.40		5	C	F2	FL14a
6#	9300-9-3L	4	1	PPS	15M	BTX	300m†	0.0	5.0	.85	1.6	45nØ	9.0m	.45		0	7	F2	FL14a
7	N8270J	4	1	PPS	15MØ	BTX	247mØ	0.0	5.0	.40%	2.6	40nØ	11m	.40		0	7	F124	FL19
8	N8271E	4	1	PPS	15MØ	BTX	344mØ	0.0	5.0	.40%	2.6	40nØ	11m	.40		0	7	F124a	ML61c
9	N8271R	4	1	PPS	15MØ	BTX	344mØ	0.0	5.0	.40%	2.6	40nØ	11m	.40		0	7	F124a	FL18
10	S8270J	4	1	PPS	15MØ	BTX	247mØ	0.0	5.0	.40%	2.6	40nØ	11m	.40		5	C	F124	FL19
11	S8271E	4	1	PPS	15MØ	BTX	344mØ	0.0	5.0	.40%	2.6	40nØ	11m	.40		5	C	F124a	ML61c
12	S8271R	4	1	PPS	15MØ	BTX	344mØ	0.0	5.0	.40%	2.6	40nØ	11m	.40		5	C	F124a	FL18
13	SN5495N	4	1	PPS	20MØ	BTX	250m†	0.0	5.0	.80	2.0	35nØ	16m	.40		5	C	F70	ML71
14	SN5495S	4	1	PPS	20MØ	BTX	250m†	0.0	5.0	.80	2.0	35nØ	16m	.40		5	C	F70	TO84
15	SN7495J	4	1	PPS	20MØ	BTX	250m†	0.0	5.0	.80	2.0	35nØ	16m	.40		0	7	F70	ML66
16	SN7495S	4	1	PPS	20MØ	BTX	250m†	0.0	5.0	.80	2.0	35nØ	16m	.40		0	7	F70	TO84
17	MC1695L	4	1	SPS	325M†	BEX	750m†	5.2	0.0	-1.6	-.96					0	7	F173	ML5
18	D4016	4§	2	PPS	5.0M	BDXØ	1.8	0.0	5.0	.95	2.0	170n				0	7	F215	PL7
19	ISR0212	4	2	PPS	5.0M†	BDXØ	855m	0.0	5.0	.95	2.0	90n				0	7	F212	PL6
20	ISR2212	4	2	PPS	5.0M†	BDXØ	855m	0.0	5.0	.95	2.0	90n				0	7	F212	PL6
21	ISR2276	4	2	PPS	5.0M†	BDXØ	425m	0.0	5.0	.95	2.0	90n				0	7	F214	PL6
22	CD4015D	4	2	SPS	6.0M†	MCX	100u♦Ø	0.0	14	.01%	9.99	100nØ	100u%	9.5♦		5	C	F80	MO001AE
23	CD4006	5§	4$	SSS	2.0MØ	MCX	10u♦Ø	0.0	10	.01Ø%	9.99	450nØ	500u%Ø			5	C	F126	FL6
24	CD4006D	5§	4$	SSS	2.0M	MCX	10u♦Ø	0.0	10	.01Ø%	9.99	450nØ	500u%			5	C	F126	ML16a
25	IFR0211	6	1	PPS	5.0M†	BDXØ	625m	0.0	5.0	.95	2.0	30n				0	7	F211	PL6
26	IFR2211	6	1	PPS	5.0M†	BDXØ	625m	0.0	5.0	.95	2.0	30n				0	7	F211	PL6
27	SCL5408D	8	1	PPS	2.0M†Ø	MCX	200m⧄	0.0	10	.05%	9.95	1.0uØ				5	C	F161	ML105
28	SCL5408F	8	1	PPS	2.0M†Ø	MCX	200m⧄	0.0	10	.05%	9.95	1.0uØ				5	C	F161	FL16a
29	SCL5408H	8	1	PPS	2.0M†Ø	MCX	200m⧄	0.0	10	.05%	9.95	1.0uØ							CH⧄
30	CD4021D	8	1	PSS	2.5M	MCX	100u	0.0	10	0.0	9.99	500n	100u	.50		5	C	F149	
31	CD4014D	8	1	PSS	5.0M†	MCX	100u♦Ø	0.0	14	.01%	9.99	100nØ	100u%	9.5♦		5	C	F79	MO001AE
32	D4039	8	2	SSS	5.0M	BDXØ	1.5	0.0	5.0	.95	2.0	70n				0	7	F216	PL7
33	9228-1-4L	8	2	SSS	5.0M	BTX	115mØ	0.0	5.0	.80	1.4	65n	2.1m	.30		5	C	F1	FL14
34	9228-1-7B	8	2	SSS	5.0M	BTX	115mØ	0.0	5.0	.80	1.4	65n	2.1m	.30		5	C	F1	ML15a
35	9228-9-4L	8	2	SSS	5.0M	BTX	120mØ	0.0	5.0	.75	1.6	65n	2.3m	.35		0	7	F1	FL14
36	9228-9-7B	8	2	SSS	5.0M	BTX	120mØ	0.0	5.0	.75	1.6	65n	2.3m	.35		0	7	F1	ML15a
37	N8277E	8	2	SSS	15MØ	BTX	540m	0.0	5.0	.40%	2.6	40nØ	16m	.40		0	7	F122	ML61c
38	N8274E	10	1	PPS	10MØ	BTX	567mØ	0.0	5.0	.40%	2.6	50nØ	16m	.40		0	7	F168	ML61c
39	N8274R	10	1	PPS	10MØ	BTX	567mØ	0.0	5.0	.40%	2.6	50nØ	16m	.40		0	7	F168	FL18
40	S8274E	10	1	PPS	10MØ	BTX	567mØ	0.0	5.0	.40%	2.6	50nØ	16m	.40		5	C	F168	ML61c
41	S8274R	10	1	PPS	10MØ	BTX	567mØ	0.0	5.0	.40%	2.6	50nØ	16m	.40		5	C	F168	FL18
42	N8273E	10	1	PPS	25MØ	BTX	540mØ	0.0	5.0	.40%	2.6	40nØ	9.6m	.40		0	7	F167	ML61c
43	N8273R	10	1	PPS	25MØ	BTX	540mØ	0.0	5.0	.40%	2.6	40nØ	9.6m	.40		0	7	F167	FL18
44	S8273E	10	1	PPS	25MØ	BTX	540mØ	0.0	5.0	.40%	2.6	40nØ	9.6m	.40		5	C	F167	ML61c
45	S8273R	10	1	PPS	25MØ	BTX	540mØ	0.0	5.0	.40%	2.6	40nØ	9.6m	.40		5	C	F167	FL18
46	ISR0253	10	1	SSS	5.0M†	BDXØ	525m	0.0	5.0	.95	2.0	90n				0	7	F213	PL6
47	ISR2253	10	1	SSS	5.0M†	BDXØ	525m	0.0	5.0	.95	2.0	90n				0	7	F213	PL6
48#	MP210BF	10	4	SSS	1.0M	MPX	250m	24	0.0	-3.5	-10					2	7	F82	FL17
49	D4208	12	2	PPS	10M	BTXØ	1.5	0.0	5.0	.80	2.0	70n				0	7	F217	PL7
50#	MP212BF	12	4	SSS	1.0M	MPX	250m	24	0.0	-3.5	-10					2	7	F82	FL17
51	5552BM	16	1	PPS	1.0M	BTX	425m	0.0	5.0	.70	2.0					5	C	F60a	FL13
52	5552CM	16	1	PPS	1.0M	BTX	425m	0.0	5.0	.70	2.0					0	7	F60a	FL13
53	TMS3016LR	16	2	SSS	1.0M	MPT	450m⧄	28	0.0	-2.0	-9.0	400nØ	1.0m	-11		5	8	F95e	TO100
54	3304-4-5F	16	2	SSS	1.0M	MPX	200m⧄	27	0.0	-2.0	-9.0					5	8	F3a	TO100
55	3304-9-5F	16	2	SSS	1.0M	MPX	200m⧄	27	0.0	-2.0	-9.0	10u				0	7	F3a	TO100
56	3300-4-5F	16§	3	SSS	250kØ	MPX	50m†⧄	27	0.0	-2.0	-9.0	1.0u	10u	-1.0		5	8	F3	TO100
57	3305-4-5F	16	4	SSS	1.0M	MPX	200m†Ø	27	0.0	-2.0	-9.0	500n	10u	-1.0		5	8	F5	TO100
58	3305-4-6J	16	4	SSS	1.0M	MPX	200m†Ø	27	0.0	-2.0	-9.0	500n	10u	-1.0		5	8	F5	ML17
59#	MP216BF	16	4	SSS	1.0M	MPX	250m	24	0.0	-3.5	-10					2	7	F82	FL17
60	5551BM	20	1	PPS	1.0M	BTX	510m	0.0	5.0	.70	2.0					5	C	F60	FL13
61	5551CM	20	1	PPS	1.0M	BTX	510m	0.0	5.0	.70	2.0					0	7	F60	FL13
62#	53MA14-1	24	1	SSD	1.0MØ	MPX	3.5m%†	20	0.0	-4.0Ø	-12	100n†	1.0nΔØ	-20	100 Ø	5	C	F12	CY3
63	3303-4-5F	25	2	SSD	500k	MPX		15	0.0	-2.0	-9.0				10k	5	8	F4	TO100
64	3303-9-5F	25	2	SSD	500k	MPX		15	0.0	-2.0	-9.0				10k	0	7	F4	TO100
65	TMS3000LR	25	2	SSS	1.0M	MPT	450m⧄	-28	0.0	-2.0	-9.0	475nØ	1.0m	-11		5	8	F95	TO100
66#	55MA25-1	32$	2	SSD	1.0MØ	MPX	3.0m%†	20	0.0	-4.0Ø	-12				100 Ø	5	C	F12a	CY2a
67#	FDN506	32	2	SSS	1.5M	MPX	2.0m%†	28	0.0	-9.0	-2.0	260n†	20m⧄			5	8	F13a	ML63
68#	FDN516A	32	2	SSS	1.5M	MPX	2.0m%†	28	0.0	-9.0	-2.0	260n†	20m⧄			5	8	F14	TO100
69	3306-4-5F	32§	3	SSS	1.0M	MPX	200m†Ø	27	0.0	-2.0	-9.0	500n	10u	-1.0		5	8	F6	TO100
70	3306-4-6J	32§	3	SSS	1.0M	MPX	200m†Ø	27	0.0	-2.0	-9.0	500n	10u	-1.0		5	8	F6	ML17
71#	FDN116	32	4	SSD	1.0M	MPX	1.0m%†	28	0.0	-9.0	-1.5	300n†	20m⧄		10k	5	8	F16a	ML63
72#	FDN106	32	4	SSD	3.0M	MPX	600u%†	28	0.0	-9.0	-1.5	70n†	20m⧄		10k	5	8	F16	ML63
73#	TL1161G	50	2	MPX	2.0M	SSS	680m⧄	15	0.0	-3.0	-9.0	250n				5	8	F34	CY1b
74	TMS3314JC	60§	6	SSD	2.0M	MPT	280mØ	14	0.0	.30	-8.0	300nØ	2.0m♦	-14	10k	2	8	F116	ML82
75	TMS3314JR	60§	6	SSD	2.0M	MPT	280mØ	14	0.0	.30	-8.0	300nØ			10k	5	8	F101	ML43a
76	TMS3314NC	60§	6	SSD	2.0M	MPT	280mØ	14	0.0	.30	-8.0	300nØ	2.0m♦	-14	10k	2	8	F116	ML48a
77#	FDN136	64$	1	SSD	1.0M	MPX	800m⧄	28	0.0	-9.0	-1.5	300n†	20m⧄		10k	5	8	F17a	ML63
78	3320-4-5F	64	1	SSD	2.0M	MPX	200u†%	27	0.0	-1.0	-24				10k	5	8	F7	TO100
79#	FDN126	64$	1	SSD	3.0M	MPX	800m⧄	28	0.0	-9.0	-1.5	70n†	20m⧄		10k	5	8	F17	ML63
80	SCL51360F	64	1	SSS	1.0MØ	MCX	2.0u♦%	0.0	5.0	.50Ø	4.5					5	C	F56	TO86
81	SCL51360T	64	1	SSS	1.0MØ	MCX	2.0u♦%	0.0	5.0	.50Ø	4.5					5	C	F57	TO97
82	SCL51362F	64	1	SSS	1.0MØ	MCX	40u♦%	0.0	5.0	.50Ø	4.5					5	C	F56	TO86
83	SCL51362T	64	1	SSS	1.0MØ	MCX	40u♦%	0.0	5.0	.50Ø	4.5					5	C	F57	TO97
84	SCL5132H	64	1	SSS	10M†Ø	MCX	200m⧄	0.0	10	.05%	9.95	300nØ	120u%	9.5				F190	CH⧄
85	SCL5132T	64	1	SSS	10M†Ø	MCX	200m⧄	0.0	10	.05%	9.95	300nØ	120u%	9.5		5	C	F190b	CY1c
86	SCL5136D	64	1	SSS	10M†Ø	MCX	200m⧄	0.0	10	.05%	9.95	300nØ	120u%	9.5		5	C	F190	ML62a
87	SCL5136F	64	1	SSS	10M†Ø	MCX	200m⧄	0.0	10	.05%	9.95	300nØ	120u%	9.5		5	C	F190	FL11a
88	SCL5136H	64	1	SSS	10M†Ø	MCX	200m⧄	0.0	10	.05%	9.95	300nØ	120u%	9.5				F190	CH⧄
89	SCL5136T	64	1	SSS	10M†Ø	MCX	200m⧄	0.0	10	.05%	9.95	300nØ	120u%	9.5		5	C	F190a	CY1c
90	SCL51380F	64	1	SSS	10MØ	MCX	6.0u♦%	0.0	15	.50Ø	14.5					5	C	F56	TO86
91	SCL51380T	64	1	SSS	10MØ	MCX	6.0u♦%	0.0	15	.50Ø	14.5					5	C	F57	TO97
92	SCL51382F	64	1	SSS	10MØ	MCX	120u♦%	0.0	15	.50Ø	14.5					5	C	F56	TO86
93	SCL51382T	64	1	SSS	10MØ	MCX	120u♦%	0.0	15	.50Ø	14.5					5	C	F57	TO97
94	TMS3103LC	64	2	SSS	2.5M	MPT	360mØ	12	5.0	.80	3.5	150nØ				2	8	F97	TO100
95	TMS3103NC	64	2	SSS	2.5M	MPT	360mØ	12	5.0	.80	3.5	150nØ				2	8	F97a	ML48a
96	3325-9-5F	64	4	PSD	1.0M†Ø	MPG	190m	0.0	5.0	.80Ø	4.0	40nØ	500nΔØ	-15	1.0kØ	0	7	F72	TO100
97#	TL1141G	66	3	MPG	1.0M	SSD	1.0m%	13	0.0	-3.0	-9.0	400n			10k	0	7	F32	CY1b
98	TMS3304LR	66	3	SSD	5.0MØ	MPT	350m⧄	14	0.0	-3.0	-8.0	250nØ			2.0k	5	8	F99	TO100
99#	MP220BF	80$	1	SSS	1.0M	MPX	300m	24	0.0	-3.5	-10					2	7	F84	FL17
100	TMS3102LC	80	2	SSS	2.5M	MPT	360mØ	12	5.0	.80	3.5	150nØ				2	8	F97	TO100
101	TMS3102NC	80	2	SSS	2.5M	MPT	360mØ	12	5.0	.80	3.5	150nØ				2	8	F97a	ML48a
102#	TL1160G	100	2	MPX	2.0M	SSS	680m⧄	15	0.0	-3.0	-9.0	250n				5	8	F34	CY1b
103#	MP1406	100	2	SSD	2.0M	BPX	500m⧄	5.0	5.0	.80♦	2.5	100n	1.6m	.40	10k	5	C	F11	TO99
104#	MP1407	100	2	SSD	2.0M	BPX	500m⧄	5.0	.5.0	.80♦	2.5	100n	1.6m	.40	10k	2	7	F11a	TO99
105#	MP1506	100	2	SSD	2.0M	BPX	500mØ	5.0	5.0	.80♦	2.5	100n	1.6m	.40	10k	5	C	F11	TO99
106#	MP1507	100	2	SSD	2.0M	BPX	500m⧄	5.0	5.0	.80♦	2.5	100n	1.6m	.40	10k	2	7	F11a	TO99
107	IM7706MTA	100	2	SSD	2.0M	MPX	500m⧄	5.0	5.0	2.5♦	.80	250n			250 Ø	5	C	F28	TO99
108	IM7707MTA	100	2	SSD	2.0M	MPX	500m⧄	5.0	5.0	2.5♦	.80	250n			250 Ø	5	C	F28a	TO99
109	IM7706CTA	100	2	SSD	3.0M	MPX	500m⧄	5.0	5.0	2.5♦	.80	250n			250 Ø	0	7	F28	TO99
110	IM7707CTA	100	2	SSD	3.0M	MPX	500m⧄	5.0	5.0	2.5♦	.80	250n			250 Ø	0	7	F28a	TO99

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

7. SHIFT REGISTERS

IN ORDER OF(1)No.BITS/REG(2)No.REGISTERS
(3)OP.CODE(4)MAX W/C FREQ(5)STRUCT(6)TYPE No

LINE No.	6 TYPE No.	ORGANIZATION 1 BITS PER REGISTER	ORGANIZATION 2 No. REGS	3 OPER. CODE	4 MAX WORST CASE FREQ. (Hz)	5 STRUCTURE CODE	MAX OPER. POWER DISS. (W)	RATED POWER SUP. SPAN NEG. (V)	RATED POWER SUP. SPAN POS. (V)	INPUT LOGIC LEVELS MAX '0' (V)	INPUT LOGIC LEVELS MIN '1' (V)	MAX PROP. DELAY (s)	MIN OUTPUT SINK CURRENT (A)	MIN OUTPUT SINK CURRENT @ OUT (V)	MIN CLOCK FREQ. (Hz)	OPER. TEMP. RANGE CODE -	OPER. TEMP. RANGE CODE +	DRAWINGS LOGIC/ BLOCK	DRAWINGS OUTLINE
1	3307-9-5F	100	2	SSS	500k	MPX	350m⧄Ø	27	0.0	-2.0	-9.0	450n				0	7	F3b	TO100
2#	MF7105	100	2	SSS	2.0M	MPG	500mØ⧄	5.0	5.0	-4.6	-3.0	300n	1.6m	.40		0	7	F143	TO100
3#	FDN526A	100	2	SSS	3.0M	MPX	2.0m%†	28	0.0	-9.0	-2.0	275n	20m⧄			5	8	F16c	TO100
4	SCL5171D	100	2	SSS	10M†Ø	MCX	5.0m♦	0.0	10	.05%	9.95	130nØ	190u%	9.5		5	C	F153b	ML62a
5	SCL5171F	100	2	SSS	10M†Ø	MCX	5.0m♦	0.0	10	.05%	9.95	130nØ	190u%	9.5		5	C	F153a	FL5b
6	SCL5171H	100	2	SSS	10M†Ø	MCX	5.0m♦	0.0	10	.05%	9.95	130nØ	190u%	9.5					CH⧄
7	SCL5171T	100	2	SSS	10M†Ø	MCX	5.0m♦	0.0	10	.05%	9.95	130nØ	190u%	9.5		5	C	F153	CY3e
8	TMS3028LR	128	2	PSS	1.0M	MPT		28	0.0	-2.0	-9.0	700nØ				5	8	F95d	TO100
9	TMS3012JC	128△	2	SSS	1.0M	MPT	609mØ	28	0.0	-2.0	-9.0	700nØ				5	8	F113	ML82
10	TMS3012NC	128△	2	SSS	1.0M	MPT	609mØ	28	0.0	-2.0	-9.0	700nØ				5	8	F113	ML48a
11	TMS3028LC	128	2	SSS	1.0M	MPT	609mØ	28	0.0	-2.0	-9.0	700nØ				5	8	F114	TO100
12	SCL5172D	128	2	SSS	10M†Ø	MCX	5.0m♦	0.0	10	.05%	9.95	130nØ	190u%	9.5		5	C	F153b	ML62a
13	SCL5172F	128	2	SSS	10M†Ø	MCX	5.0m♦	0.0	10	.05%	9.95	130nØ	190u%	9.5		5	C	F153a	FL5b
14	SCL5172H	128	2	SSS	10M†Ø	MCX	5.0m♦	0.0	10	.05%	9.95	130nØ	190u%	9.5					CH⧄
15	SCL5172T	128	2	SSS	10M†Ø	MCX	5.0m♦	0.0	10	.05%	9.95	130nØ	190u%	9.5		5	C	F153	CY3e
16	SCL5151F	128	4	SSS$	1.0MØ	MCA	300n♦Ø	0.0	10	-2.0Ø	-8.0					5	C	F166	FL⧄
17	SCL5151FB	128	4	SSS$	1.0MØ	MCA	10u♦Ø	0.0	10	-2.0Ø	-8.0					5	C	F166	ML⧄
18#	FDN206	200	1	SSD	1.0M	MPX	600u%	28	0.0	-9.0	-2.0	300n†	20m⧄		10k	5	8	F14h	ML63
19#	FDN206A	200	1	SSD	1.0M	MPX	600u%	28	0.0	-9.0	-2.0	300n†	20m⧄		10k	5	8	F14g	TO99
20#	M58301P	256	1	SSD	100k	MXX	150m	14	0.0	-9.0	-2.5	2.0u			10k	1	7	F162	ML86b
21#	FDN156A	256	1	SSD	1.0M	MPX	600u%	28	0.0	-9.0	-2.0	300n†	20m⧄		10k	5	8	F14c	TO100
22#	FDN146	256	1	SSD	3.0M	MPX	300m	14	0.0	-9.0	-1.5	70n†			10k	5	8	F14b	ML63
23#	FDN146A	256	1	SSD	3.0M	MPX	300m	14	0.0	-9.0	-1.5	70n†			10k	5	8	F14a	TO100
24#	FDN156	256	1	SSP	1.0M	MPX	600u%	28	0.0	-9.0	-2.0	300n†	20m⧄		10k	5	8	F14d	ML63
25#	FDN196A	256	2	SSD	3.0M	MPX	360u%†	14	0.0	-9.0	-2.0	275n	20m⧄		10k	5	8	F14e	TO100
26#	FDN166A	256	2	SSD	5.0M	MPX	350u%†	26	0.0	-9.0	-1.0	110n	20m⧄		5.0k	5	8	F47	TO100
27	ISR9005	256	2	SSS		MXXØ	5.3	13	13	1.1	2.0	100n						F15	PL6
28	1402	256	4	SSD	5.0M	MPG	600mØ⧄	5.0	5.0	.80♦	3.3	90nØ	1.6m	.50	10k	0	8	F29	ML10a
29	TMS3412JC	256	4	SSD	6.0M	MPG	600mØ	5.0	5.0	.80	3.3	80n	1.6m	.50	10k	2	8	F120	ML48a
30	TMS3412NC	256	4	SSD	6.0M	MPG	600mØ	5.0	5.0	.80	3.3	80n	1.6m	.50	10k	2	8	F120	ML82
31	1405	512	1	SSD	2.0M	MPG	400mØ	5.0	5.0	.80♦	3.0	250n	1.6m	.50	10k	5	8	F30	TO100
32#	MF1405	512	1	SSD	2.0M	MPG	500mØ⧄	5.0	5.0	.80	3.0	250n	1.6m	.50	200	5	8	F30	TO100
33#	MP1405	512	1	SSD	2.0M	MPG	500m⧄	5.0	5.0	.80♦	3.0	250n	1.6m	.50	10k	5	8	F30	TO100
34#	FDN216A	512	1	SSD	3.0M	MPX	360m	14	0.0	-9.0	-1.5	45uØ	20m⧄		10k	5	8	F14f	TO100
35	1403	512	2	SSD	5.0M	MPG	600mØ⧄	5.0	5.0	.80♦	3.3	90nØ	1.6m	.50	10k	0	8	F29a	TO99
36	IM7703#1	512	2	SSD	5.0M	MPG	250mØ♦	5.0	5.0	.80	3.3	90m	1.0u△		250	5	8	F133	TO99
37	IM7703#2	512	2	SSD	5.0M	MPG	250mØ♦	5.0	5.0	.80	3.3	90n	1.0u△		250	5	8	F134	ML90
38#	MF1403A	512	2	SSD	5.0M	MPG	600mØ⧄	5.0	5.0	.80	3.0	110n	1.6m	.50	10k	0	8	F29a	TO99
39	TMS3404JC	512	2	SSD	5.0M	MPT		12	5.0	.80	3.4	100n†			10k	2	8	F118	ML82
40	TMS3404NC	512	2	SSD	5.0M	MPT		12	5.0	.80	3.4	100n†			10k	2	8	F118	ML48a
41	TMS3413LC	512	2	SSD	6.0M	MPG	600mØ	5.0	5.0	.80	3.3	80n	1.6m	.50	10k	2	8	F120a	TO99
42	TMS3413NC	512	2	SSD	6.0M	MPG	600mØ	5.0	5.0	.80	3.3	80n	1.6m	.50	10k	2	8	F120c	ML48a
43	1404	1024	1	SSD	5.0M	MPG	600mØ⧄	5.0	5.0	.80♦	3.3	90nØ	1.6m	.50	10k	0	8	F29b	TO99
44	IM7704#1	1024	1	SSD	5.0M	MPG	250mØ♦	5.0	5.0	.80	3.3	90n	1.0u△		250	5	8	F133a	TO99
45	IM7704#2	1024	1	SSD	5.0M	MPG	250mØ♦	5.0	5.0	.80	3.3	90n	1.0u△		250	5	8	F134a	ML90
46#	MF1404A	1024	1	SSD	5.0M	MPG	600mØ⧄	5.0	5.0	.80	3.0	110n	1.6m	.50	10k	0	8	F29b	TO99
47	TMS3414LC	1024	1	SSD	6.0M	MPG	600mØ	5.0	5.0	.80	3.3	80n	1.6m	.50	10k	2	8	F120b	TO99
48	TMS3414NC	1024	1	SSD	6.0M	MPG	600mØ	5.0	5.0	.80	3.3	80n	1.6m	.50	10k	2	8	F120d	ML48a

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

PART D

MANUFACTURERS CODES, NAMES & ADDRESSES

SPACE–SAVERS UTILIZED IN THIS MANUFACTURER LISTING

(*) — Manufacturer not a current commercial producer of Digital or Linear Integrated Circuits. Address is that last recorded in our files. Company may or may not be active at this address.

see(code) — Indicates one or more of the following changes have occurred since original letter code was used: (1) Change of code; (2) Change of manufacturer name; (3) Purchased by or combined with another manufacturer.

MANUFACTURERS IN ORDER OF CODE LETTERS

ABA — Abacus Division, Information Control Corp., 9610 Bellanco Ave., Los Angeles, Calif. 90045
ACO — Acopian Corp., P.O. Box 585, Easton, Pennsylvania 18042
(*) **ADC** — ADC Digital Products, Div. of Canoga Electronics Corp., 8966 Comanche Ave., Chatsworth, Calif. 91311
ADD — Advanced Micro Devices, Inc., 901 Thompson Place, Sunnyvale, California 94086
ALGG — AEG-Telefunken, D-71 Heilbronn, Postfach 1042, West Germany
AMI — American Micro-Systems, Inc., 3800 Homestead Rd., Santa Clara, Calif. 95051
AMS — Advanced Memory Systems, Inc., 1276 Hammerwood Ave., Sunnyvale, Calif. 94086
ANA — Analog Devices, Route 1, Industrial Park, P.O. Box 280, Norwood, Mass. 02062
APX — Amperex Electronic Corp., Providence Pike, Slatersville, Rhode Island 02876
ARL — Achrodyne Corp., 113 Thomas Rd., Grafton, Virginia 23490
ATL — Atlantic Instruments & Electronics, Inc., 50 Hunt St., Watertown, Mass. 02172
(*) **AWH** — A.W. Haydon Co., 232 No. Elm St., Waterbury, Conencticut 06720
BAH — Bell & Howell, Control Products Div., 706 Bostwick Ave., Bridgeport, Connecticut 06605
(*) **BCP** — Bryant Computer Products, 850 Ladd Rd., Walled Lake, Michigan 48088
BEC — Beckman Instruments, Inc., Helipot Div., 2500 Harbor Blvd., Fullerton, Calif. 92634
(*) **BNT** — Burns & Towne, Inc., 18-36 Granite St., Haverhill, Mass. 01830
BTRG — Bentron Elektronik GmbH, 8 Munchen 19, Schulstrasse 21, Germany
BUB — Burr-Brown Research Corp., International Airport, Industrial Park, Tucson, Arizona 85706
BUR — Burroughs Corp., P.O. Box 1226, Plainfield, New Jersey 07061
(*) **CAM** — Cambridge Thermonic Corp., Digital System, 445 Concord Ave., Cambridge, Mass. 02138
CDI — Computer Dynamics, 245 E. Elm St., Torrington, Connecticut 06790
(*) **CEM** — California Electronic Manufacturing Co., Inc., Alamo, Calif. 94507
(*) **CEQ** — Control Equipment Corp., 19 Kearney Rd., Needham Heights, Mass. 02194
CER — Cermetek, Inc., 660 National Ave., Mountain View, Calif. 94040
(*) **CGR** — Cogar Corp., Technology Dept., All Angels Hill Rd., Wappinger Falls, New York 12590
(*) **CLC** — Computer Logic Corp., 1528 20th St., Santa Monica, Calif. 90404
(*) **CLI** — Control Logic, Inc., 9 Tech Circle, Natick, Mass. 01760
CMI — CTS Microelectronics, Inc., 1201 Cumberland Ave., West Lafayette, Indiana 47906
CML — Computer Labs, 1109 So. Chapman St., Greensboro, North Carolina 27403
CMT — Computer Microtechnology, Inc., 610 Pastoria, Sunnyvale, Calif. 94086
CODI — CODI Semiconductor, Div. of Computer Diode Corp., Pollitt Dr., Fairlawn, New Jersey 07410
CPR — Computer Products, P.O. Box 23849, Ft. Lauderdale, Florida 33307
CRY — Crystalonics Div., Teledyne, Inc., 147 Sherman St, Cambridge, Mass. 02138
CSR — CSR Industries, Inc., Semicon. Div., 59 Central Ave., E. Farmingdale, New York 11735
DAD — DDC, 100 Tec Street, Hicksville, New York 11801
(*) **DAM** — Damon Corp., Electronics Div., 115 Fourth Avenue, Needham, Mass. 02194
DEC — Digital Equipment Corp., 146 Main Street, Maynard, Mass. 01754
(*) **DET** — Deltime Inc., 225 Hoyt Street, Mamaroneck, New York 10544
DIC — Dickson Eelctronics Corp., P.O. Box 1390, Arizona 85252

PART D

MANUFACTURERS CODES, NAMES & ADDRESSES

MANUFACTURERS IN ORDER OF CODE LETTERS

DIS – Discon Sales Corp., 1322 N.W. 14th Ave., Pompano Beach, Florida 33060
DMC – Dynamic Measurements Corp., 6 Lowell Ave., Winchester, Mass. 01890
DTC – Data Technology Corp., 1050 E. Meadow Circle, Palo Alto, Calif. 94303
EAI – Electronic Arrays, Inc., 501 Ellis St., Mountain View, Calif. 94040
(*) **EBAS** – Ebauches S. A., Dept. Oscilloquartz, 2001 Neuchatel, Switzerland
EEC – Electronic Engineering Co. of Calif., Components Div., 1441 E. Chestnut Ave., Santa Ana, Calif. 92702
EELC – Epitek Electronics, Ltd., 19 Grenfell Crescent, Ottawa 12, Ontario, Canada
(*) **EFM** – Electronics For Measurement, 848 Marcheta St., Altadena, Calif. 91001
EGG – EG & G, Inc., Electro Optics Div., 35 Congress St., Salem,Mass. 01970
(*) **EGI** – Ess Gee, Inc., 1 Holland Ave., White Plains, New York 10603
(*) **ELLB** – Elliott Automation Microelectronics Ltd., Borehamwood, Hertfordshire, England
(*) **EMC** – Electronic Module Corp., P.O. Box 141, Timonium, Maryland 21093
FCP – Fairchild Microwave & Opto Electronics Div., 3500 Deer Creek Rd., Palo Alto, Calif. 94304
FERB – Ferranti Ltd., Electronics Dept., Gem Mill, Chadderton, Oldham, Lancaster, England
FSC – Fairchild Semiconductor, 464 Ellis Street, Mountain View, Calif. 94040
(*) **GECB** – GEC Semiconductors, Ltd., Witham, Essex, England
(*) **GESY** – General Electric Co., I.C. Project, Bldg. 5, Electronics Pk., Syracuse, New York 13201
GIC – General Instrument Corp., P.O. Box 600, Hicksville, New York 11802
GME – See (PHIL)
GPS – GPS Corp., 14 Burr St., Framingham, Mass. 01701
HAL – Halex, Inc., 3500 W. Torrance Blvd., P.O. Box 2940, Torrance, Calif. 90509
HAS – Harris Semiconductor, P.O. Box 883, Melbourne, Florida 32901
HBC – Hybrid Systems Corp., 87 Second Avenue, Burlington, Mass. 01803
(*) **HIS** – Honeywell Information Systems, Inc., Old Connecticut Path, Framingham, Mass. 01701
HPA – Hewlett-Packard Co., Micro Electronic Group, Microwave Div., 1501 Page Mill Rd., Palo Alto, Calif. 94304
(*) **HSE** – Hamilton Standard, Main St., Broad Brook, Connecticut 06016
(*) **INI** – Intellux, Inc., 26 Coromar Dr., Goleta, Calif. 93017
INL – Intersil, Inc., 10900 No. Tantau Ave., Cupertino, Calif. 95014
INS – Inselek, University Park Plaza, 743 Alexander Rd., Princeton, New Jersey 08540
INT – Intronics, Inc., 57 Chapel St., Newton, Mass. 02158
INTG – Intermetall, Halbleiterwerk der Deutsche, ITT Industries GmbH, 78 Freiburg, Hans-Bunte-Strasse 19, Germany
ITH – Ithaco, Inc., 735 W. Clinton Street, Ithaca, New York 14850
ITI – Intech, Inc., 1220 Coleman Ave., Santa Clara, Calif. 95050
ITL – Intel Corporation, 3065 Bowers Ave., Santa Clara, California 95051
ITT – ITT Semiconductors, 3301 Electronics Way, West Palm Beach, Florida 33407
ITTB – ITT Semiconductors, Footscray, Sidcup, Kent, England
(*) **ITTW** – ITT Manufacturing Services, Div. ITT Industries, Ltd., Cefundy Rd., Rhyl, Flintshire, North Wales
(*) **KME** – K & M Electronics Corp., 408 Paulding Ave., Northvale, New Jersey 07647
(*) **KNA** – Knapton Associates, Inc., Nashua Servo Controls Div., 130 Northeastern Blvd., Nashua, New Hampshire 03060
(*) **LAI** – Linear Alpha, Inc., 823 Emerson Street, Evanston, Illinois 60201
LED – Ledex, Inc., 123 Webster Street, Dayton, Ohio 45402
LSI – Lithic Systems, Inc., 10010 Imperial Ave., P.O. Box 869, Cupertino, California 95014
(*) **MAL** – P. R. Mallory & Co., P.O. Box 1115, Indianapolis, Indiana 46206
MATJ – Matsushita Electronics Corp., Semicon. Div., Saiwaicho 1-1, Takatsuki, Osaka, Japan
MEL – Melcor Electronics Corp., 1750 New Highway, Farmingdale, New York 11735
(*) **MEP** – Mepco, Inc., Columbia Road, Morristown, New Jersey 07960
MIA – MIL Electronics, Inc., 176 Walker Street, Lowell, Mass. 01854
MILC – Microsystems International, Ltd., Box 3529, Station C, Ottawa, Canada
MIS – Mini-Systems, Inc., 20 David Road, North Attleboro, Mass. 02761
MITJ – Mitsubishi Electric Corp., Kita-Itami Works, 4-1 Mizuhara, Itami-shi, Hyogo-Ken, Post Code 664, Japan

PART D

MANUFACTURERS CODES, NAMES & ADDRESSES

SPACE–SAVERS UTILIZED IN THIS MANUFACTURER LISTING

(*) – Manufacturer not a current commercial producer of Digital or Linear Integrated Circuits. Address is that last recorded in our files. Company may or may not be active at this address.

see(code) – Indicates one or more of the following changes have occurred since original letter code was used: (1) Change of Code; (2) Change of manufacturer name; (3) purchased by or combined with another manufacturer.

MANUFACTURERS IN ORDER OF CODE LETTERS

MMI – Monolithic Memories, Inc., 1165 E. Arques Ave., Sunnyvale, California 94086
MNC – Micro Network Corp., 5 Barbara Lane, Worcester, Mass. 01604
MON – Monitor Systems, Inc., 401 Commerce Drive, Fort Washington, Pennsylvania 19034
MOS – Mostek Corporation, 1215 W. Crosby Rd., Carrollton, Texas 75006
MOTA – Motorola Semiconductor Products, Inc., 5005 E. McDowell Rd., Phoenix, Arizona 85008
MPI – Micropac Industries, 905 E. Walnut Street, Garland, Texas 75040
(*) **MSC** – Micro Semiconductor Corp., 11250 Playa Court, Culver City, California 90230
MTY – MOS Technology, Inc., Valley Forge Industrial Park, Valley Forge, Pa. 19481
MULB – Mullard Ltd., Mullard House, Torrington Place, WC1E 7HD, London, England
NAP – North American Philips Controls Corp., Cheshire Industrial Park, Cheshire, Connecticut 06410
(*) **NCC** – KDI-Navcor, Inc., 5721 Dragon Way, Cincinnati, Ohio 45227
NEC – Nuclear Equipment Corp., 931 Terminal Way, San Carlos, Calif. 94070
NECJ – Nippon Electric Co., Ltd., 1753 Shimonumabe, Kawasaki City, Japan
NPC – Nucleonic Products, Inc., 6660 Variel Ave., P.O. Box 1454, Canoga Park, Calif. 91303
NPP – National Power Products, Inc., P.O. Box 292, Haverhill, Mass. 01830
NSC – National Semicon. Microcircuits Div., 2900 Semiconductor Dr., Santa Clara, Calif. 95051
OEI – Optical Electronics, Inc., P.O. 11140, Tucson, Arizona 85706
OPA – Opamp Labs, Inc., 172 So. Alta Vista Blvd., Los Angeles, Calif. 90036
OPT – Optimax, Inc., P.O. Box 105, Advance Lane, Colmar, Pennsylvania 18915
(*) **PHIL** – Philco-Ford Corp., Microelectronics Div., 1400 Union Meeting Rd., Blue Bell, Pa. 19422
PHIN – N. V. Philips Gloeilampenfabrieken, Eindhoven, Netherlands
PLSB – Plessey Semiconductor, Cheney Manor, Swindon, Wiltshire, England
PMI – Precision Monolithics, Inc., 1500 Space Park Drive, Santa Clara, California 95050
(*) **QDC** – Qualidyne Corp., 1230 Bordeaux Drive, Sunnyvale, California 94086
(*) **QDI** – Quadri Corp., 2950 West Fairmont, Phoenix, Arizona 85017
QUM – Q. D. C. Corporation, RD No. 3, Somerville, New Jersey 08876
RAG – Ragen Semiconductor, Inc., 53 So. Jefferson Rd., Whippany, New Jersey 07981
RCA – RCA Corporation, Solid State Div., Route 202, Somerville, New Jersey 08876
(*) **RED** – Redcor Corporation, 21200 Victory Blvd., Woodland Hills, Calif. 91364
(*) **ROA** – RO Associates, Inc., 3705 Haven Ave., P.O. Box 2163, Menlo Park, Calif. 94025
RTCF – R.T.C. La Radiotechnique-Compelec, 130, Ave. Ledru-Rollin, 75540 Paris Cedex 11, France
RTN – Raytheon Company, 350 Ellis Street, Mountain View, California 94040
SAKJ – Sanken Electric Co., Ltd., 1-22-8 Nishi, Ikebukuro, Toshima-ku, Tokyo, Japan
SCD – Semiconductor Circuits, Inc., 306 River Street, Haverhill, Mass. 01830
(*) **SCI** – SCI Electronics, Inc., 8330 Broadway, Houston, Texas 77017
SGAI – SGS-ATES Componenti Elettronici S.p.A., Via C. Olivetti 1, Agrate Brianza, Italy
SGL – Silicon Transistor Corp., KSC Way, Chelmsford, Massachusetts 01824
SGSI – See (SGAI)

PART D

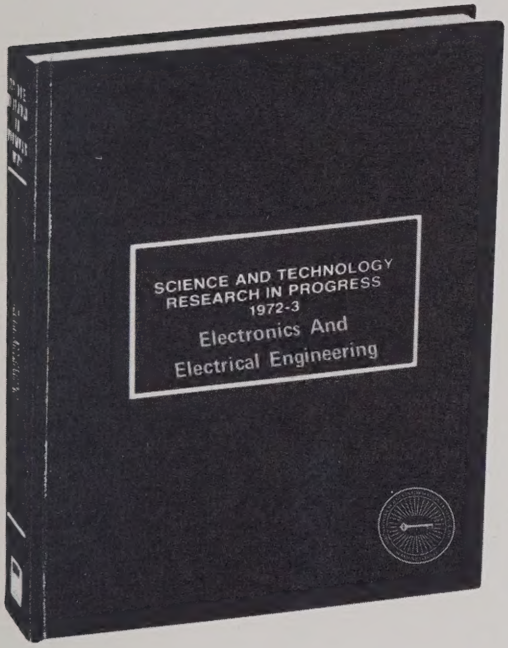
MANUFACTURERS CODES, NAMES & ADDRESSES

MANUFACTURERS IN ORDER OF CODE LETTERS

SIC – Signetics Corp., 811 E. Arques Avenue, Sunnyvale, Calif. 94086
SIEG – Siemens Aktiengesellschaft, Semicon. Div., Balanstrasse 73, 8000 Munich 8, Germany
(*) **SIL** – Silicon Transistor Corp., KSC Way, Chelmsford, Massachusetts 01824
SIX – Siliconix, Inc., 2201 Laurelwood Rd., Santa Clara, Calif. 95054
SOD – Solitron Devices, Inc., 256 Oak Tree Road, Tappan, New York 10983 (Digital and Linear Devices)
SOD – Solitron Devices, Inc., 8808 Balboa Avenue, San Diego, California 92123 (Memory Devices)
(*) **SPP** – Simmonds Precision Products, Inc., Tarrytown, New York 10592
SPR – Sprague Electric Co., North Adams, Massachusetts 01247
(*) **SSD** – Sperry Semiconductor, 380 Main Avenue, Norwalk, Connecticut 06852
SSE – Solid State Electronics Corp., 15321 Rayen Street, Sepulveda, Calif. 91343
SSS – Solid State Scientific, Inc., Montgomeryville, Pennsylvania 18936
STK – Statek Corp., 1200 Alavarez Ave., Orange, California 92668
SWM – Stewart-Warner Microcircuits, Inc., 730 E. Evelyn Avenue, Sunnyvale, Calif. 94086
(*) **SYL** – Sylvania Electric Products, Inc., 100 Sylvan Rd., Woburn, Massachusetts 01801
TADI – Tadiran, Israel Electronics Ind., Ltd., 3 Hashalom Rd., POB 648, Tel Aviv, Israel
TEC – Transitron Electronic Corp., 168-182 Albion Street, Wakefield, Massachusetts 01880
(*) **TEK** – Trans-Tek Manufacturing Co., 4405 So. Clinton Ave., So. Plainfield, New Jersey 07080
THCF – Thomson-CSF, Div. Semiconductors SESCOSEM, 101, Bd. Murat, 75781 Paris Cedex 16, France
(*) **TID** – Tyco Instrument Div., 223 Crescent St., Waltham, Massachusetts 02154
TII – Texas Instrument, Inc., Components Group, P.O. Box 5012, Dallas, Texas 75222
TIIB – Texas Instrument, Ltd., Manton Lane, Bedford, England
TIID – Texas Instrument, Deutschland GmbH, 8050 Freising, Haggertystrasse, Germany
(*) **TMI** – Transmagnetics, 210 Adams Blvd., Farmingdale, New York 11735
TPN – Teledyne Philbrick, Allied Drive at Route 128, Dedham, Massachusetts 02026
TRA – Tecnetics, Inc., P.O. Box 910, Boulder Industrial Park, Boulder, Colorado 80302
(*) **TRC** – The Roback Corp., Harmon-Kardon, Module Div., Huntingdon Valley, Pa. 19006
TRW – TRW Microelectronics, 14520 Aviation Blvd., Lawndale, California 90260
TSC – Teledyne Semiconductor, 1300 Terra Bella Avenue, Mountain View, Calif. 94043
TSI – Torque Systems, Inc., P.O. Box 167, 225 Crescent St., Waltham, Mass. 02154
UCC – See (SOD)
(*) **UNC** – UnitedComputer Co,, 4504 N. 16th Street, Phoenix, Arizona 85016
(*) **USC** – Unisem, Sub. United Aircraft Corp., P.O. Box 11569, Philidelphia, Pa. 19116
(*) **VAD** – Varadyne, Inc., 3223 Wilshire Blvd., Santa Monica, Calif. 90403
VALG – Valvo GmbH, P.O. Box 993, D2000, Hamburg, Germany
(*) **VAO** – See (MPI)
(*) **VDM** – Varian Data Machines, 2722 Michelson Drive, Irvine, Calif. 92664
(*) **VEL** – Vectron Laboratories, Inc., 121 Water Street, Norwalk, Connecticut 06854
(*) **WAL** – Walkirt Company, 8944 Mason Avenue, Canoga Park, California 91306
(*) **WBC** – Golden Technology, Inc., 3017 Santa Rosa Ave., Santa Rosa, Calif. 95401
(*) **WESC** – Canadian Westinghouse Co., Ltd., Solid State Devices Dept., P.O. Box 510, Hamilton, Ontario, Canada
(*) **WESY** – Westinghouse Electric Corp., Molecular Electronics Div., Box 7377, Elkridge, Md. 21227
WLD – Wyle Computer Products, Inc., 133 Center St., El Segundo, California 90245
(*) **WTI** – Western Telematic, Inc., 3507 Peck Rd., Arcadia, Calif. 91006
(*) **XDS** – Xerox Data Systems, 565 South Aviation Blvd., El Segundo, Calif. 90245
ZEL – Zeltex, Inc., A Sub. of Redcor Corp., 1000 Chalomar Rd., Concord, California 94520

HOW TO FIND OUT ABOUT RESEARCH IN PROGRESS

BEFORE THE RESEARCHER PUBLISHES



ACADEMIC MEDIA/SMITHSONIAN INSTITUTION ANNOUNCE PUBLICATION OF ELECTRONICS AND ELECTRICAL ENGINEERING

This volume, the first in a 12-volume series entitled Science and Technology Research in Progress—1972-1973, has been created to meet the increasing need among members of the research community to be in closer touch with each other.

ELECTRONICS AND ELECTRICAL ENGINEERING TELLS YOU:

- What research projects are going on
- Who is involved
- Where the work is being done
- Who funded the project
- What is the funding level

ELECTRONICS AND ELECTRICAL ENGINEERING COVERS:

More than 4500 projects in over 100 subject areas

TYPICAL EXPANSION OF A SINGLE SUBJECT AREA

- ELECTRONICS
  - a. Electric Circuits & Networks
    - Antennas
    - Circuit Theory
    - Circuit Synthesis
    - Filters
    - Logic Circuits
  - b. Electromagnetic Propagation
  - c. Microwave Engineering
  - d. Modulation
  - e. Plasma
  - f. Signal Analysis
    - Interference & Noise
    - Spectrum
  - g. Solid State
    - Amplifiers
    - Basic
    - Detectors
    - Radiation Resistance
    - Signal Generators
    - Oscillators
    - Superconductors
    - Switching Circuits
  - h. Ultrasonics

BASIC TABLE OF CONTENTS

A. Research Project Titles
- ELECTRONICS
- ELECTRONIC SYSTEMS
- ELECTRIC POWER SYSTEMS
- COMPONENTS & ELECTRONIC DEVICES
- METHODS
- BIOMEDICAL ENGINEERING

B. Investigator Index
C. Research Organization Index
D. Funding Organization Index
E. Subject Index — For easy reference, projects are described by 8-10 key terms . . . more than 2900 key terms listed.

ORDER THIS FIRST EDITION VOLUME TODAY. . . . .ONLY $60.00

ORDER FROM: ACADEMIC MEDIA
A Cordura Company

Dept. WXC3A
32 Lincoln Avenue
Orange, N.J. 07050

Satisfaction unconditionally guaranteed

ANNOUNCING . . . THE NEW

THYRISTOR D.A.T.A. BOOK

Your only single-source reference to

- SCR's
- Triacs
- Diacs
- Shockley Diodes
- N-Gate Devices
- Gate Turnoff Devices
- Four-Terminal Switches (SCS)
- Reverse-Conducting Triodes
- Silicon Asymmetrical Switches (SAS)
- Silicon Bilateral Switches (SBS)
- Silicon Unidirectional Switches (SUS)
- Light-Activated Switches

PLUS....

- 1N, 2N and 3N JEDEC Devices
- Types with U. S. Mil Specs
- Outline Drawings
- Manufacturers and Addresses

OVER 12,500 TYPES FROM THE WORLD'S 75 KNOWN MANUFACTURERS

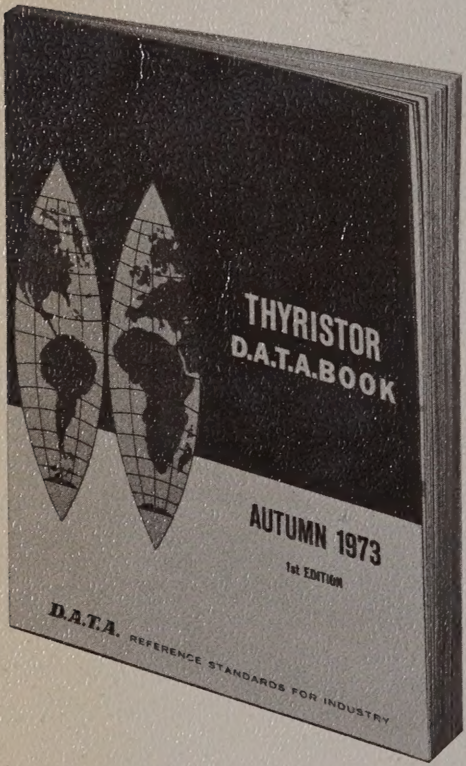
Conveniently organized and sequenced for easy access.

IN THE D.A.T.A.BOOK TRADITION ANOTHER TIME-SAVING TOOL

At last, the single-source thyristor characteristics book. Here, in one volume is the electrical and physical characteristics information of every thyristor from all 75 known worldwide manufacturers.

Now you can save hours every week finding information for the best selection of SCR's, Diacs, Triacs, Shockley Diodes, Silicon Switches, Four Terminal Switches and more.

D.A.T.A. engineers have successfully combined your data requirements with standardized values, terms and definitions to give you a single complete and detailed information source . . . the new THYRISTOR D.A.T.A.BOOK.



Subscription price (2 editions per year)

U.S.	INTERNATIONAL
$29.50	$31.00

THYRISTOR D.A.T.A. BOOK TECHNICAL FORMAT SECTIONS

2. DIACS, SHOCKLEY DIODES

IN ORDER OF(1)USE CODE(2)MAX.FWD.SW.VOLT.(3)REV.VOLT.(4)MAX.REP.ON-ST.CUR.(5)TYPE No.

LINE No.	5 TYPE No.	1 USE CODE	FORWARD SWITCHING VOLTAGE: VS 2 MAX (V)	FORWARD SWITCHING VOLTAGE: VS MIN. (V)	3 REV VOLT. VSYM/VRRM (V)	4 MAXIMUM REPETITIVE ON-STATE CURRENT ITRM @ (A)	TEMP (°C)	PULSE WIDTH (s)	REP RATE (Hz.)	MAX. HOLD CUR. IH (A)	MAXIMUM SWITCH. CURRENT IS@VS (A)	MINIMUM BREAKBACK VOLTAGE ΔVT (V)	@IT (A)	TYP. SW. TIME TON (s)	SURGE CURRENT ITSM (A)	@PULSE WIDTH (s)	OPER TEMP RNGE CODE - +	LEAD CODE	DRAWING No.

3. TRIODES, POWER, REVERSE-BLOCKING:SCRS

IN ORDER OF(1)MAX.REPETIT.OFF-ST.VOLT(2)MAX.STATIC ON-ST.CUR(3)@T(4)IGT(5)VGT(6)TYPE No.

LINE No.	6 TYPE No.	1 MAX.REP OFF-STATE VOLTAGE VDRM (V)	2 MAX.STATIC ON-STATE CURRENT IT (A)	3 @T (°C)	MAXIMUM GATE FIRING CHARACTER. 4 IGT (A)	5 VGT (V)	MAX. HOLD. CUR. IH (A)	MAX.OFF-ST. CURRENT IR@VRRM OR ID@VDRM (A)	@T (°C)	MAXIMUM ON-STATE VOLTAGE VT (V)	@IT (A)	TYPICAL SWITCHING TIME ON Tgt (s)	ON @IT (A)	OFF Tq (s)	WORST-CASE dV/dt (V/us)	SURGE CURRENT ITSM (A)	OPER. TEMP. RANGE CODE - +	LEAD CODE	DRAWING No.

4. TRIODES, POWER, BI-DIRECTIONAL:TRIACS

IN ORDER OF(1)MAX.REPETIT.OFF-STATE VOLTAGE (2)MAX.RMS CUR(3)@TEMP(4)IGT(5)VGT(6)TYPE No

LINE No.	6 TYPE No.	1 MAX.REP OFF-STATE VOLTAGE VDRM (V)	2 MAXIMUM RMS CURRENT IT(RMS) (A)	3 @T (°C)	MAXIMUM GATE CHARACTER. 4 IGT (A)	5 VGT (V)	MAX HOLD CUR. IH (A)	MAX.OFF-ST. CURRENT IR@VRRM or ID@VDRM (A)	@T (°C)	PEAK ON-STATE VOLTAGE VTM (V)	@IT (A)	TYPICAL SWITCHING TIME Tgt (s)	@IT (A)	WORST-CASE dV/dt COMM. V/us	STATIC V/us	SURGE CURRENT ITSM (A)	OPER TEMP RNGE CODE - +	LEAD CODE	DRAWING No.

5. TRIODES, POWER, MISCELLANEOUS

IN ORDER OF(1)USE CODE(2)MAX.REP.OFF-ST.VOLT (3)MAX.STATIC ON-ST.CUR.(4)@TEMP(5)TYPE No.

LINE No.	5 TYPE No.	1 USE CODE	2 MAX.REP OFF-STATE VOLT. VDRM (V)	3 MAX STATIC ON-STATE CURRENT IT (A)	4 @T (°C)	MAXIMUM GATE FIRING CHARACTER. IGT (A)	VGT (V)	MAX. HOLD. CUR. IH (A)	MAX.OFF-ST CURRENT ID@VDRM (A)	@T (°C)	MAXIMUM ON-STATE VOLTAGE VT (V)	@IT (A)	TYP SW. TIME Tgt (s)	SURGE CURRENT ITSM (A)	GENERAL DESCRIPTION	OPER TEMP RNGE CODE - +	LEAD CODE	DRAWING No.

6. TRIODES, TRIGGER

IN ORDER OF(1)USE CODE(2)MAX.REP.OFF-ST.VOLT (3)MAX.STATIC ON-ST.CUR.(4)@TEMP(5)TYPE No.

LINE No.	4 TYPE No.	1 USE CODE	SWITCHING VOLTAGE VS 2 MAX (V)	MIN (V)	3 MAXIMUM REPETITIVE ON-STATE CURRENT ITRM @ (A)	TEMP (°C)	PULSE WIDTH (s)	REP RATE (Hz.)	MAX. HOLD. CUR. IH (A)	MAXIMUM SWITCH CURRENT IS@VS (A)	MAXIMUM ON-STATE VOLTAGE VT (V)	@IT (A)	TYP. SW. TIME TON (s)	SURGE CURRENT ITSM (A)	@PULSE WIDTH (s)	GENERAL DESCRIPTION	OPER TEMP RNGE CODE - +	LEAD CODE	DRAWING No.

7. MULTI-GATE DEVICES

IN ORDER OF(1)USE CODE(2)MAX.REP.OFF-ST.VOLT (3)MAX.STATIC ON-ST.CUR.(4)@TEMP(5)TYPE No.

LINE No.	5 TYPE No.	1 USE CODE	2 MAX.REP. OFF-STATE VOLT. VDRM (V)	REP. PEAK REV.V VRRM (V)	3 MAX.STATIC ON-STATE CURRENT IT (A)	4 @T (°C)	MAXIMUM GATE FIRING CHARACTERISTICS P-GATE IGT (A)	P-GATE VGT (V)	N-GATE ICT (A)	N-GATE VCT (V)	MAX. HOLD. CUR. IH (A)	MAX.OFF-ST. CURRENT ID@VDRM (A)	@T (°C)	MAXIMUM ON-STATE VOLTAGE VT (V)	@IT (A)	TYP. SW. TIME Tgt (s)	SURGE CURRENT ITSM (A)	OPER TEMP RNGE CODE - +	LEAD CODE	DRAWING No.

ORDER FROM: D.A.T.A.,Inc.
A Cordura Company
Dept.WXC3
32 Lincoln Avenue
Orange, N.J. 07050